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xamiuations held in April last, the following students of this oo were successful :-

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Mr. JOHN NEWTON, Heckington. Mr. W. P. WILLIAMS, Llanberis.

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At the June and July Minor Examinations the under-named students have passed from this school, making a total of Forty for the year now euding-

JUNE-

Mr. J. W. BYGOTT, Huddersfield. | Mr. G. PENTY, Manchester.

JULY-

Mr. H. Deing, Brandon Parva.

"E. Mason, Stretford.

"G. Burnett, Manchester.

H. E. Holt, Manchester.

J. B. Hirrson, Normacker.

Mr. H. Colley, Grimsby.
,, T. Briggs, Halifax.
,, A. George, Manchester.

J. R. Hudson, Newcastle-on-Tyne.

Jos. THOMAS, Rochdale.

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REPORT

COLEMAN'S LIEBIG'S EXTRACT

MEAT AND MALT WINE,

By FRANCIS SUTTON, Esq., F.C.S.,

Public Analyst for the County of Norfolk, &c.

FRANCIS SUTTON, ESQ., F.C.S., NORFOLK COUNTY ANALYSTS Analytical and Consulting Chemist, Author of Handbook of Volumetric Analysis, Chemist to the Norfolk Chamber of

Agriculture,

Gas Examiner for the City of Norwich.

OFFICE.

LONDON STREET, NORWICH, July 25th, 1888.

I hereby certify that I have made an exhaustive analysis of the Meat and Malt Wine prepared by Messrs. Coleman & Co., Limited, Norwich, with a view to determine chiefly whether it really contains an appreciable quantity of Meat Extract, and whether it is entitled to be classed as a suitable dietetic stimulant for invalids. The result of my analysis proves that it does contain a suitable proportion of all the most valuable principles contained in Liebig's Ex'ract of Meat. It is well known to physiologists that this extract is not valued for the ordinary albumenoids (such as gelatine and albumen), which are, indeed, excluded to a large extent by the process of manufacture, but that its chief value, as shown by Baron Liebig himself, consists in its containing those essential principles peculiar to flesh, and which have a remarkable restorative power over the nervous system of invalids, thus rendering Liebig's Extract famous. In addition to these valuable substances the wine also contains a considerable quantity of Malt Extract, which is also well known an appreciated as an excellent restorative in cases of debility.

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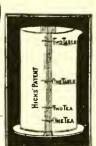
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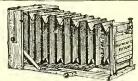
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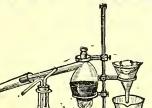
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Miscellaneous.

Twelve doz. pear-shaped syphons, cheap; what offers? Coldwell, Malvern.

1,000 poppy heads, good quality, 5s.; bag 6d. Connor, Doneaster.

Daneer's microscope; good library of science books; owner retiring; will send list. 276/7.

Patent medicines, drugs, and shop fittings; all in good condition; giving up business, 279/10.

"Sloper Keyless Watch," good timekeeper, valued at one guinca; what offers? Hayton, Thorne, Yorksbire.

Snperior microscope slides in great variety, 5s. dozen; list; approval. Henry Ebbage, 344 Caledonian Road, London.

Giving up part of trade.—Large lot of surplus stock; list sent on application. Newham & Pickard, Shude Lane, Sheffield.

Percolator, stoneware, 2 gallon, nearly new, 15s, Apply, M'Kee, Chemist, Tunstall, Staffordshire,

Surplus.—Job lines, much under cost, to clear; include drugs, chemicals, patents, and sundries; send stamp for detailed list to Gillman, 5 Wrotham Road, N.W.

Water bed, good condition, 6 ft. by 3½ ft.; also Mnspratt's "Chemistry," in two volumes, well bound; what offers. Simms, Chemist, Scarborough.

20 lb. ground indigo, 3s.: 2 cwt. gum senegal, 84.; 2 cwt. rape seed, 15s.; 2 cwt. Mawer's dandelion coffee, in ½-lb. tins, stamped, 6s. doz. Harrop, Middleton, Lanes.

WANTED.

Pessary mould, also chemical balances. 279/37.

A few trusses, pessaries, and spectacles; cheap. Send particulars and prices. 279/7.

To exchange specie jar, height 22 in., for small carboys. Griffith, Burnham, Somerset.

Large gilt mortar for outside show, with or without lenses. Apply Nelson, Chemist, 37 Morrison Street, Edinburgh.

"British Pharmacopæia," last edition, good condition; lowest price, Timmins, 28 Eign Street, Hereford.

A Bracher's mixing machine, with drawer. Full particulars and price to A. Smith, 5 High Street, Newport, Mon.

Plate-glass counter case, as Maw's A 18; must be in good order. State size and price to Todd, Alexandra Terrace, Sunderland.

Attfield's "Chemistry," eleventh; Bentley's "Botany," latest. Kendall, care of Walker, Pharmaey, Blundellsauds.

Gray's "Supplement," and two specie jars; quote price. Scholey, Burnham Market, Norfolk.

Two 4-gallon swan-neck carboys, cut stoppers; state price delivered. Sumner, Chemist, Hecking on.

Ear syringe; albo-carbon, per cwt.; constant small supplies of German yeast; medical battery or magnet. George Brisley, Berhill, Sussex.

Addresses Wanted.

Major R. F. Croker, late of Littlehampton, believed to be now at Brighton. 1s. will be raid for present correct address by Heald, Burnham, Bucks.

London Traveller's Address.—The undersigned will feel much obliged by any Chemist sending them the name of the house George R. Browne (lately representing Messrs. Edge Brcs.) is now canvassing for. Hawker Bros., 1 Railway Approach, London Brić ge, S.E. May be had on application, enclosing Business Card.

S. MAW, SON & THOMPSON'S



QUARTERLY

Price Current



BOOK OF ILLUSTRATIONS

OF

SURGEONS' INSTRUMENTS & APPLIANCES

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DRUGGISTS' APPARATUS, IMPLEMENTS, UTENSILS,

And other Requisites employed in Pharmacy and the Dispensing of Medicines.

1EDICAL GLASS AND EARTHENWARE. SHOP FITTING S, SHOW CASES.
SPECIE JARS, SHOW BOTTLES.

LINT AND SPREAD PLASTERS.
HAIR, TOOTH, AND NAIL BRUSHES.
TOILET AND SMELLING BOTTLES.

FEEDING BOTTLES.

Proprietary Articles, Perfumery, and

DRUGGISTS' SUNDRIES OF ALL KINDS

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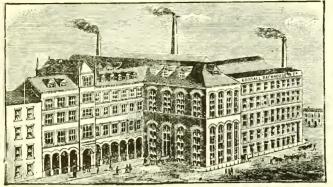
. MAW, SON & THOMPSON, ALDERSGATE LONDON

FORWARDED POST FREE TO ALL PARTS OF THE WORLD.

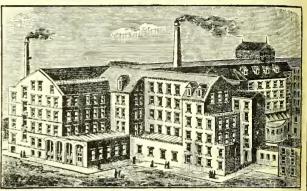
chemists and Druggists not receiving the above who are desirous doing so, are requested to make application enclosing Business Card, a receipt of which their names will be placed on the Register for all future issues.

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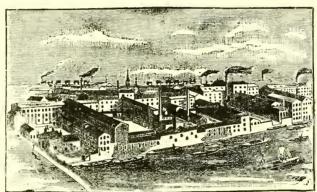


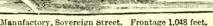
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Acetate of Amyl.

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AND ALL PHARMACEUTICAL

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DETAILED PRICE LIST ON APPLICATION.

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COMFORT & PROLONG YOUR EXISTENCE

MITRE TEA.



Mitre "Broken Leaf" 1 4

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Fac-Simile of Show Card distributed Gratis to all Agents.

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Mitre "Broken Leaf" 1 4
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Pekoe'' ... 1
Mitre "Thrift" (whole leat) 1

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Sold Specially Selected Agents. Wrapped in \(\frac{1}{4}\)-lb., \(\frac{1}{2}\)-lb., \& 1-lb. Parcels.

VALUABLE AGENCY.

Framed Show Cards, Enamelled Iron Tablets, Posters, Window Transfer, and Handbills with Agent's Name on supplied free. Newspaper and Railway Station Advertisements to suit the requirements of Agents. Applications for Agencies where unrepresented will receive prompt attention. Price Current and Pamphlet, with Terms, post free.

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A MOST VALUABLE AGENCY.

TOWER TEA.—Only the choicest kinds, selected from the London import market, are used Absolute reliance can be placed on its perfect purity and uniform high quality.

TOWER TEA.—Used by thrifty housekeepers; sold by enterprising agents in every town in the United Kingdom, who find it a profitable Agency.



Tower Sta

Registered Trade Marks, Nos. 44,027 and 43,992.

NOTE. THE ABOVE TRADE MARKS APPEAR ON EVERY PACKAGE,

TOWER TEA.—HUNDREDS OF TESTIMONIALS from all parts of the kingdom speak to the excellent character of this Tea, its popularity with all classes, and the high value of the Agency. A representative selection of these testimonials has been published, and can be had on application, with samples of undermentioned Teas; also the little pamphlet, "A Short History of Tower Tea"; and the book of pictures, "Voyage and Adventures of Ah-Chin-Chin" (1s.).

TOWER TEA, 1s. 4d. per lb. (retail price) Sound Wholesome Tea.

TOWER TEA, ls. 8d. , , Powerful Tea,

TOWER TEA, 2s.

Powerful Tea, whole and semi-leaf.

Fine First Crop Tea, from India, China, and Ceylon.

WHERE VACANCIES MAY EXIST, AGENTS ARE APPOINTED BY

THE GREAT TOWER STREET TEA CO., LD.

3 JEWRY STREET, LONDON, E.C.



CHEMISTS DRUGGIST

DESIROUS OFSECURING

LUABLE

SHOULD SELL THE

Read what our Agents say about it, and notice the recent dates of the following Unsolicited Testimonials, which may be seen on application at our Offices:-

August 13, 1888 _" The Tea is much liked, and always asked for when once tried." August 7, 1888... Will be sold out ! cfore the end of the week. I am pushing it all I can."

July 27, 1588 _"I have tried the sample you were good enough to send, and find it an excellent blend."

July 18, 1888 _ "I don't want to introduce any other lacket as long as yours please so well."

July 18, 1888._" It sel's well."

June 8, 1888._" We find the demand increase."

June 4, 1888._" I find the Tea very good value, and customers I ke it,"

April 30, 1838.-" Th's Teaseems to take very well in this town."

April 30, 1888._" I think I shall be able to sell this Tea when its gets known "

April 27, 1888.—"I have now qui'e a number of customers who get it regularly, and say they prefer it to any other kind." April 20, 1888.—"It has taken well at my branch, and I think I will try it here too."

Ap il 16, 1888..." My customers say that it's the best Tea I have had."

April 18, 1838.—"It is only fair to acknowledge the fact that I can get no Teas equal to yours."

April 18, 1888.—"It seems to give satisfaction, as several customers have come the second and third time."

April 13, 1838 ._ "It is very good, and I wish to say it is the best Tea I ever had," April 10, 1833.—" Our customers like it and recommend it."

April 3, 1888..." We have got your Tea started here, and it gives satisfaction to everyone who tries it."

March 31, 1838 - "I find fresh eustomers every week, and it gives great satisfaction."

March 21, 1888 _" The Tea is liked well, getting fresh customers every day." February 27, 1838. _ Great inquiries for this Tea."

February 25, 1888—"I find the Spring Blossom rapidly gaining favour, and gives universal satisfaction."

eb: uary 19, 1885 ... " All say they never tasted better Tea."

TO THE

AGENTS WANTED WHERE

NOT REPRESENTED.

Samples and Terms 1 ost free (set of Three 1-lb. Samples post free for 2/), sells Re'ail at 2/, 2/6, and 3/.

Wholesale Tea and Coffee Dealers,

APPOINTMENT GENTS.

MINCING LANE, LONDON.

Are prepared to entertain a limited number of applications from Traders of undoubted standing to be appointed Agents or the sale of the Company's Teas. A Liberal Commission will be allowed. The Agency will be found to be a valuable one, entailing little, if any, trouble to the Agent, in addition to which it will be the means of bringing numerous customers to him, who will patronise his general business.

Address the Secretary—UNITED KINGDOM TEA COMPANY, LIMITED,

MINCING LANE, LONDON, Offices-21

and Unsweetened or Sweetened Purest, Cheapest, The



productions. 0 Nutritions milar Most



READ OUR) GRATIS and

and Post

For Single Cups of Tea Hobbs' Infuser is unequalled. Its cost is soon repaid by the saving in the quantity of tea used. Price 1s. 6d. from all China Dealers, Grocers, Chemists, &c., or post free direct, 1s. 9d.

HOBBS' INFUSER CO., Limited, Bees:-12, WOOL EXCHANGE, LONDON, E.C. CREWKERNE; and 62, NORTH STREET, BRIGHTON.

THE "LONDON-MADE"

(TITLE REGISTERED).

Obtained the HIGHEST AWARD at the International Health Exhibition, London, 1884.



The high reputation this bottle has achieved is due to the fact of its being in every particu-lar the most perfect yet introduced; and when compared with others in the market it stands in the market it stands pre-eminent. It is most simple in its working parts, therefore the least liable to get ont of order; it is the most easily opened, the lightest pressure on the handle being sufficient; produces a more highly-charged gaseous water than is usually obtained from syphons; it compares most favourably in appearance with any, and, the metal top being entirely free from lead, the prejudice against syphon drinks is at once re-moved, as the liquid passes over pure tin only.

All our Syphons are now fitted at the base with a groove, so that drips from the spout that run down the sides are prevented from soiling the table. See drawing.

NOTE.—Syphons made with our patent foot for collecting excess of liquid collecting excess of liquid dripping from the spout after use are supplied at no extra charge, and will be found of great utility in preventing stains, &c., upon table linen. This is a desideratum long been wanting, particularly for privatehouse use. Send for sample; forwarded upon receipt of 2s.

Any name, crest, or trade-mark put on the glass by an improved acid process, at from 18s, to 24s. per gross. There is a three-fold advantage in this, as it forms a continual advertisement, is a great convention. great ornament, and a preventive of fraud. The plate for engraving costs extra from 5s. upwards, according to the artistic device required.

PRICES (WHITE, BLUE, GREEN, OR AMBER):—
By the gross,
Per doz.
Per

BARNET FOSTER,

MINERAL WATER ENGINEERS,

fanufacturing Chemists, and General Providers for the Aërated Water Wine, Beer, and Cyder Trades,

"Niagara Works," 26[±] Eagle Wharf Road, London, N.

Send for Price List of Soda-water Machinery and Accessories.

TYRER'S SAUCES BOROUGH" KETCHUP

THE GIANT 1d. BOTTLE OF SAUCE. LARGEST IN THE TRADE.
In Half-Gross Boxes, at 6/8 per Gross.*

"BOROUGH" KETCHUP, WORCESTER, HARVEY, YORKSHIRE, OR READING SAUCE.

1d. Sample Bottles, dozen parcels .. per gross 5/ extra quality 6/ 6/6 8/ 8/ 5/6 1d. Giant Bottles, dozen parcels 6/6* ", ½ gross boxes
-Bottles (flat or round), reputed ½-pint
-Bottles (flat or round), reputed pint 16/ 26/ 24/ 32/ 36/ -Bottles (flat or round), reputed pint -pint Imperial Round Stoppered Bottles ... 30/ 12½-gallon Casks (casks free).. "

ROYAL SAL

In 8-oz. square-stoppered bottles, 48/ per gross. A rich, fruity Sauce of fine flavour, and worth especial attention, as being the most saleable in the market.

Samples of any kind Sent Free of all Cost by

TYRER, PETER The "Borough" Ketchup and Sauce Maker,

70 LONG LANE, BOROUGH, LONDON, S.E.

SCOTCH AGENCY: 113 WEST NILE STREET, GLASGOW. Also Sold by W. & C. PANTIN, Upper Thames Street, LONDON, E.C. BURGOYNE & CO., 16 Coleman Street, London, E.C. JOS. TRAVERS & SONS, 119 Cannon Street, London, E.C.

BEVERAGES. TEMPERANGE

A Sixpenny Bottle of

ADAMS'S EXTRACT OF HERBS

Will make 8 gallons of sparkling, wholesome, and refreshing

PRIME HERB OR BOTANIC BEER.

Unequalled in strength and richness of flavour by any preparation made from fresh herbs.

The Extract is very carefully manufactured, on the most improved scientific principles, from the herbs and plants gathered and dried at the proper season, when their virtues are in full vigour, thus retaining their invigorating and health-giving properties.

It makes an excellent beverage, giving natural flavour and colour, and a sparkling foam like bottled ale.

In Bottles, 6d. to make 8 gals.; 1s. to make 18 gals.; and 2s. 6d. to make 50 gals.

GINGER ALE

makes a sparkling, refreshing, and invigorating beverage for summer and winter.

ADAMS'S SPARKLING FOAM PRODUCER.

One tablespoonful added to 2 gallons of the Herb Beer er Ginger Ale, just before bottling, gives a creamy foam like bottled ale.

Wholesale Agents,

W. ELWARDS & SONS, Queen Victoria St., London.

Specially favourable terms to large Buyers from the PROPRIETOR,

B. ADAMS, Mansfield, Notts.

TO THE

CHEMISTS & DRUGGISTS

GREAT BRITAIN.

TELEGRAPHIC ADDRESS: COLEMAN, GEORGE'S, NORWICH.

St. George's, Middle St., NORWICH, December, 1887.

The Excise Authorities having created a difficulty as to the sale of Medicated Wine containing a certain percentage of alcohol, we obtained in January last, from the Inland Revenue Authorities, permission to sell our Liebig's Extract of Meat and Malt Wine, WITH QUININE, without a Wine Licence, and many Chemists not holding a Wine Licence have sold considerable quantities. In order further to meet the requirements of the trade, we have introduced a Liebig's Extract of Meat and Malt Wine, NON-Alcoholic, made from the juice of the Grape, Liebig's Extract of Meat, and Extract of Malt. This also can be SOLD WITHOUT A WINE LICENCE. orders will oblige either direct or through the Wholesale Houses.

Yours obediently,

COLEMAN & CO., LIMITED.

N.B.—The Wine is sold in Bottles, 2/9 and 4/6 each. Trade prices on application.

P.S.—Where the Licence is not held we are willing to pay the entire cost of a Retail Licence (the holder of which can sell any kind of Wines) if an assorted order of 6 dozen is sent us of any of our preparations. List on application. Our Liebig's Extract of Meat and Malt Wine WITH-OUT QUININE commands a very large sale, and is recommended by over one thousand medical men who have sent us testimonials in its favour.

SOLE MANUFACTURERS-

COLEMAN & CO., LIMITED,

ST. GEORGE'S, NORWICH,

AND 3 NEW LONDON STREET, LONDON, E.C. 16

FERRUM REDACTUM BY HYDROGEN

IN EVERY PERCENTAGE.

Manufactured by the 'Chemische Fabrik,'

DR. PAUL LOHMANN.

HAMELN, HANNOVER, GERMANY.

REVOLUTION IN THE FLY PAPER TRADE.

It must have been observed that for some time the public have become disgusted with the old poisonous fly paper, and have taken somewhat readily to a sticky sort of substitute.

The advertiser has perfected and patented a Fly Paper of this nature, which will certainly be the leading thing in this way in the future. It is a well got-up and effective paper, and is as cleanly to bandle as a sheet of note-paper.

In the advertiser's own retail establishment last season the sale of this was simply enormous, as they were freely used by tradespeople (butchers, baker, grocers, and confectioners), who would not dare to risk the danger from dead with them, as they spared the animals the torture from this source.

From the nature of the article it cannot very large from the maker, and Postal Orders will facilitate remittence.

The price is 4.6 per gross (carriage free), but where a large trade is developed more liberal terms will be given.

Send sample order for small lot, and while the season is on you are bound to do a big thing.

ADDRESS_

S. WILSON, CHEMIST, ST. HELENS, LANCS

T. & F. J. TAYLOR'S



SODA, POTASH, SELTZER, AERATED (without Alkali), and LITHIA WATERS, LEMONADE AND GINGER ALE.

Each Fottle is protected by a Label bearing the Signature of the Firm.

Purity and Excellence of the Water certified by Analysis by Professor AttriELD, Ph.D., F.C.S.

HOLLOWAY'S PILLS & OINTMENT

Have the Largest Sale of any Medicine in the World. MANUFACTURED ONLY AT

Professor HOLLOWAY'S Establishment, 78 New Oxford St. (late 533 Oxford St.), London,

And sold at 1s. 11d., 2s. 9d., 4s. 6d., 11s., 22s., and 33s. each Box or Pot

Chemists and Druggists selling "Holloway's Pills and Ointment" can on application to the above address, or to the Wholesale House with whom they deal, be supplied free of charge with Handbills and Posters with their name and address printed at foot.

Wholesale Terms see List of "Progrietary Articles" in most Price Currents.

SEE INDEX, PAGES 21-23.

S. MAW, SON & THOMPSON'S

ATH GLOVES, RUBBERS, &c.

coft Brown per doz. 5/4 & 6/0 9/0 5/4 LEFACIO OR BADEN, No. 2, per doz. 6/0 9/0 5/4 REVERSIBLE, No. 1, one side soft Brown, the other best	
oft Brown per doz. 5/4 & 6/0 9/0 5/4 LEFACIO OR BADEN, No. 2, pard Brown per doz. 6/0 9/0 5/4 REVERSIBLE, No. 1, one side soft Brown, the other best	aps. Pads.
LEFACIO OR BADEN, No. 2, ard Brown per doz. 6/0 9/0 5/4 REVERSIBLE, No. 1, one side soft Brown, the other best	0 5/4
ard Brown per doz. 6/0 9/0 5/4 soft Brown, the other best	77-
ard Brown per doz. 6/0 9/0 5/4 soft Brown, the other best	
White Turkish . per doz. 6/8 11	/0 5/4
LEFACIO OR BADEN, No. 5,	
oft Brown, assorted patterns, REVERSIBLE, No. 2, one side	
per doz. 6/6 9/0 5/4 hard Brown, the other White	
LEFACIO OR BADEN, as- Honeycomb per doz. 6/8 11	/0 5/4
orted patterns, export quality,	, ,
per doz. 4/0 (Red labels) REVERSIBLE, No. 3, one side	
LEFACIO (the U.S.), Striped Egyptian Loofah, the other best	
oft Brown per doz. 6/6 9/0 5/4 White Turkish, per doz., single 4/0 13	/0 _
TRETOIT MILES TRETOIT OF OTHER STATES	0.10

RKISH THIN WHITE GLOVES, per doz. pairs, 2/9 & 3/
Ditto Best Quality ,, 4/9 & 6/- ,, 5/-

SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

. MAW, SON & THOMPSON'S

SUPERIOR QUALITY

ATERPROOF CHECK SPONGE BAGS.

 No. 1
 2
 3
 4
 5
 6

 7×6
 8×7
 9×8
 10×9
 11×10
 12×11 inches.

 6/0
 7/0
 9/0
 11/0
 12/6
 16/0 per dozen.

For other descriptions see Quarterly Price Current, page 84.

MAW, SON & THOMPSON'S BRIGHTON SPONGE BAGS,

7ITH BALL CLASP FASTENINGS, NICKEL-PLATED.

No. 2 3 11×10 8×7 9×8 10×9 12×11 inches. ECK... 16/0 20/0 26/0 18/0 28/0 per dozen. ISLEY 18/0 20/0 22/0 28/0 32/0 SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

7 to 12 ALDERSGATE STREET, LONDON.





THE BRIGHTON SPONGE BAG.

THE BEST NATURAL APERIENT,

Persistent attempts are made by interested parties to deceive the public by offering Natural Mineral Aperient Waters with marks, names, and designations very similar to those which are used by the APOLLINARIS COMPANY (LIMITED) upon the NATURAL MINERAL APERIENT WATERS imported by them.

Under these circumstances the APOLLINARIS COMPANY (LIMITED) feel compelled to caution the public that the HUNGARIAN BITTER WATER sold by the COMPANY always bears the name of the APOLLINARIS COMPANY (LIMITED) on the Label, and a RED DIAMOND, which is their TRADE MARK of Selection.

DEMAND THE DIAMOND MARK,

and insist upon receiving the HUNGARIAN APERIENT WATER of the APOLLINARIS COMPANY (LIMITED).



FLATNESS OF TASTE

SO COMMON IN FILTERED WATER,



OBVIATED

BY HSING

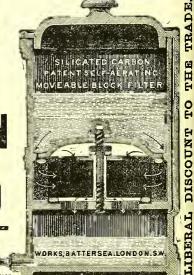
SILICATED CARBON

FILTERS

AERATEI

By means of which the water is Aerated and Filtered simultaneously, rendering it, even after boiling, Pure, Bright, and Palatable.

The Silicated Carbon Block can be Instantly Removed, leaving the whole of the Filter Open for Inspection and Cleansing.



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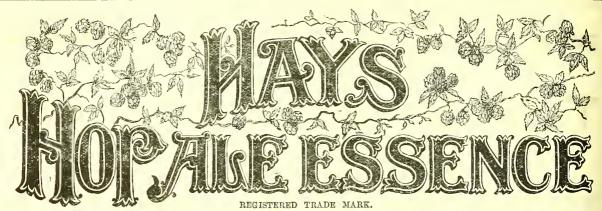
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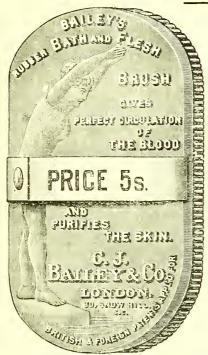
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" l gr.	and Iron	Podophyllin 1	T. , , , , , , , , , , , , , , , , , , ,	. 2 gr.	Strychnine 2 gr	T.
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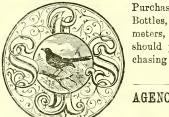
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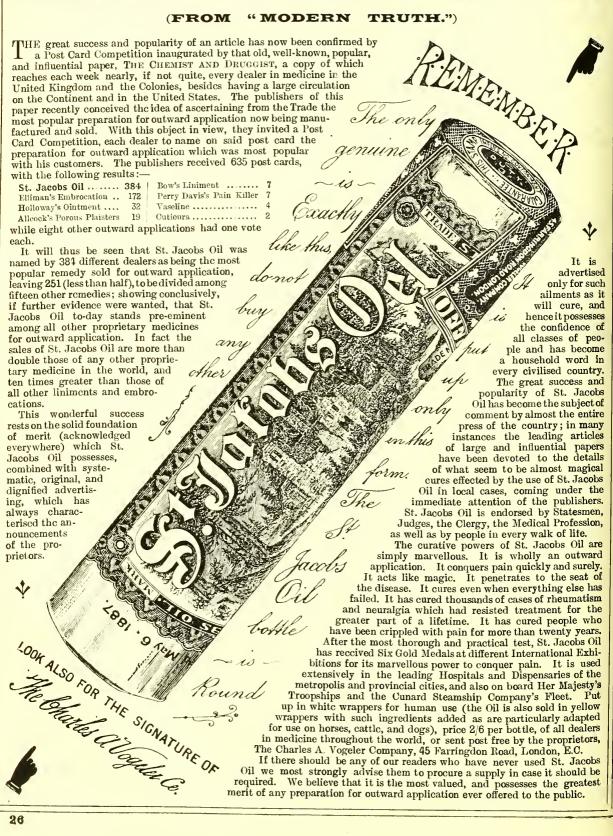
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The Tabloids present many and very substantial dvantages over all other forms of medicines yet itroduced. First of all, they are made with the ure drug only, and are not contaminated with eedless and objectionable excipients. They do not, nerefore, like pills, change their condition and ecome insoluble with time; nor do they, on the ther hand, crumble like the imitations do, care eing taken to compress them with sufficient force to

revent their falling to pieces.

The "Tabloids" are compressed "hard and soft," ue regard being paid to the purpose for which they re to be used. Those designed for dissolving in the nouth, like Chlorate of Potash, Chlorate of Potash nd Borax, and Voice Tabloids are made very hard; hile those destined for internal administration re less dense, and quickly disintegrate, such as Bismuth Subnitrate, Manganese Dioxide, Charcoal abloids, &c. Others of the more lightly comressed Tabloids dissolve with the greatest readiness: or example, the soluble Quinine Bisulph. dissolve lmost as quickly as they touch the water, and it may e observed incidentally that this renders them nfinitely cheaper than, and preferable to, the ordinary Quinine, which is so insoluble that every part reuires 740 parts of water to dissolve it. The Sodium

Bicarbonate "Tabloids" are as pure and active as this salt can be, a sufficient dose of it not failing to relieve a "Sour Stomach." The Potassium Bicarbonate "Tabloids" are likewise an eligible preparation, pure and reliable—this salt, as is well known, enjoying precedence over Sodium Bicarbonate in those cases where the "acidity of the stomach" is ever recurring and chronic. This is the salt par excellence in the indigestion from fatty acids, to alkalise the urine, and eradicate the causes of "chronic acidity."

There is an old adage that Soda is the salt for the Liver, and Potash for the Kidneys. Certain it is that for whatever purpose required, the Soda and the various Potash Tabloids do their work well.

The salient points of the "Tabloids" are many, but not one of them is more important than the one that they are easy to swallow. The reason of this is obvious. Not being spherical, but lenticular, they do not roll about the mouth and stick in the throat like pills. Who cannot recall his own experiences when as a child he tried repeatedly and almost in vain to swallow a pill? Had our forefathers made a pill of any other shape than round, they would have facilitated a thousandfold the taking of medicine by patients. It requires much experience for a tongue to handle a pill, and a peculiar knack to get it down! The most difficult form of drug to swallow is a pill.

The "Tabloids" furnish all the advantages of pills, and none of their disadvantages. They are portable, easily carried in the waistcoat pocket, and can be taken while following the daily avocations. A most noteworthy feature about them is that accidents are not apt to happen, for the dose of each is accurately

apportioned.

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Ammon. Bromide, 5 and 10 gr.
Ammon. Chloride, 3, 5, and 10 gr.
Ammon. Chloride, 3, 5, and 10 gr.
Ammon. Chloride, 3, 5, and 10 gr.
Amtiporin, 5 gr.
Dismuth Sub-nit., 5 and 10 gr.
Caffein Citrate, 1 gr.
Cascara Sagrada Ext., 2 gr.
Catacric Comp. U. S. F.
Charcoal, 5 gr.
Chloral Hydrate, 5 gr.
Choral Hydrate, 5 gr.
Choral Hydrate, 5 gr.
Cocaine with Potash and Borax.
Ipecac. Powder, gr.
Cocaine with Potash and Borax.
Ipecac. and Opium. Dover Powd.), 5 gr.
Ipecac. Powder, gr.
Iron and Quinine Cit., 3 gr.
Laxative Vegetable.
Lithia Carbonate, 2 gr.
Nitro-Glycerine.
Pepsin Pure (Fairchild).
Pepsin Saccharated, 5 gr.
Peptonic.
Potash Chlorate, 5 gr.
Potash Chlorate, 5 gr.
Potash Chlorate, 5 gr.
Potash Chlorate, 5 gr.
Potash Permanganate, 1 and 2 gr.
Potassium Iodide, 5 gr.
Potassium Iodide, 5 gr.
Potassium Bromide, 5 and 16 gr.
Potassium Bromide, 5 and 16 gr.
Potassium Iodide, 5 gr.
Quinine, 4, 1, 2, 3, and 5 gr.
(Quinine Sulph. 1 gr.
Arsenic, 1/20 gr.
Strychnia, 1/30 gr.

Tannin.
Test Tabloids.
Test Tabloids.
Tonic Comp.
Strechnine, 1/20 gr.
Trinitrine (Nitro-glycerine), 1/100 and Trinitrine and Amyl Nitrite.

Trinitrine Comp.

Trinitrine Comp.

Trinitrine Comp.

Capse cum, 1/50 gr.

Menthol, 1/50 gr. Urethane, 5 gr.
Voice (Potash, Borax, and Cocaine).
Zinc Sulpho, 1 gr.
Zinc Sulpho-carbolate, 2 gr.
Zymine Tabloids.
Zymine Tabloids,

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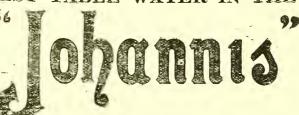
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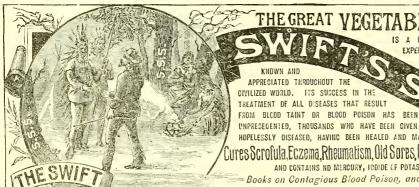
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POST-CARD, COMPETITION.—Ne. 8.

WE invite post-card communications on any of the hundred subjects named on pages 158, 159, and 160 of THE CHEMIST AND DRUGGIST, August 4, and for the test we offer the usual prize of one guinea. Competitors may write their essays on one, two, or three post-cards. Subscribers or their employés only are eligible to compete, and all essays must reach us before August 31.

MR. H. V. DAKERS, who will leave England next week for New York, will in future undertake the representation of THE CHEMIST AND DRUGGIST in the United States. His permanent address will be announced subsequently. For the present letters addressed to him at the Metropolitan Hotel, New York, will have attention.

MR. F. W. BRIDGES, one of the publishers of The Chemist and Druggist of Australasia, will make a tour through the United States, from San Francisco to New York, in the autumn. He will be glad to call on American firms en route who wish to talk with him concerning the drug business in the Australasian colonies, and those who wish to have an interview with him should address letters to the care of Messrs. John Taylor & Co, 112 to 120 Pine Street, San Francisco, Cal., or to the care of Mr. C. F. A. Hinrichs, 29 Park Place, New York.

THE LEAVING CERTIFICATE OF THE SCOTCH EDUCATION DEPARTMENT.—It is announced that the Royal College of Surgeons of Edinburgh, the Pharmaceutical Society of Great Britain, and the Council of the Society of the Solicitors before the Supreme Courts have expressed their willingness to accept the leaving certificate of the Scotch Education Department for so much of the preliminary examinations imposed by these societies as is covered by the certificates possessed by intending candidates.

SIR MORELL MACKENZIE is at work on his reply to the recently published attack upon him by the German physicians. His answer will be shortly published in book form simultaneously in England and Germany. Messrs. Sampson, Low, Marston & Co. will be the English publishers. A considerable portion of it will be in the nature of personal anecdote by Sir Morell respecting his illustrious patient, the late Emperor Frederick. Facsimiles of the Emperor's notes will be included.

PARLIAMENTARY NEWS.

THE Pharmacy Act (Ireland) 1875 Amendment Bill, brought in by Mr. W. Corbet, stands over until Wednesday, November 14, when the Committee stage is to be taken.

THE second reading of the Pharmacy Acts Amendment (Lords) Bill, which is in charge of Sir Henry Roscoe, is appointed for Monday, November 12.

COLLAPSE OF THE MILAN INTERNATIONAL PHARMA-CEUTICAL CONGRESS.—In spite of all assurances, and more or less official announcements to the contrary, it is now certain that no International Pharmaceutical Congress will he held this year. The August number of the Bolletino Farmaccutico announces that at a meeting of the Mılan pharmacists (apparently the only one ever held in connection with the scheme) it was decided to postpone the congress until next year, owing to the present "exceptionally unfavourable conditions of pharmacy" in that ancient city. But it is doubtful whether the Milan people are at all anxious for the congress to meet within their walls, for in 1889, which year they have now chosen, the general meeting of the Italian Pharmaceutical Society has already been arranged to take place in Rome, while the second Italian pharmaceutical congress will also be held next summer in the same city.

Metropolitan Reports.

AN ATHLETIC DRUGGIST'S SUNDRIESMAN.—At an athletic competition in July, at the People's Palace, Charles Pugh, an employé of Messrs. Lynch & Co., Aldersgate Street, was placed first for the horizontal bar competition, first for the parallel bars, first for the vaulting horse, and first all round. The prizes were distributed last week by the Duchess of Albany, and consisted of silver medals recording the events.

THE WALTHAMSTOW CASE.—William Barber, the chemist's assistant in custody on su-picion, was again examined on Saturday last in reference to the death of Mrs. Annie Mary French under circumstances already stated. Further evidence was given by Mr. French, who said that he and his wife and Barber were very intimate. Barber had applied chloroform to his wife's face for toothache in his (French's) house. He had often received notes from the prisoner. Dr. Thorpe repeated the evidence which he gave at the inquest, and said that chloroform was sometimes used for toothache, applied to the gums. Carbolic acid was also sometimes used for toothache, but muriate of morphia was seldom used. By Mr. Bore (for defendant): The smell of chlorodyne would somewhat resemble that of chloroform. Dr. Blight gave corroborative evidence, adding, in reply to the Bench, that in his opinion chloroform must have been inhaled. There was a distinct smell of chloroform from several portions of the body. By Mr. Lewis (for the prosecution): There was no smell of muriate of morphia. By Mr. Bore: There were no traces of deceased having been outraged. Dr. Thorpe, re-called, said that he saw no signs in the mouth of the deceased of the use of carbolic acid. Mr. II. S. Haynes (the clerk) then read over the depositions of the various witnesses, and, when Dr. Thorpe's were concluded, the chairman said he observed that Dr. Blight was not called in for three hours; he would like to know whether Dr. Thorpe did not think the case of sufficient importance at first to send for assistance. Dr. Thorpe: No, sir; I did not think it was necessary. The prisoner was then remanded for a week.

THE LEWISHAM POISONING CASE.—At the Middlesex Speriff's Court, before Mr. Under-Sheriff Burchell and a jury, an action was heard on August 9, in which Mrs. Catherine Ann Brewster sought to recover damages for the loss of her husband from Mr. Edward Lawrence Henry. Mr. G. A. Vennell, barrister, represented the plaintiff. No counsel was in attendance for the defendant. The defendant is a chemist, carrying on business at Loampit Vale, Hither Green Lane, also in Lewisham. Plaintiff is the widow of a publican, who was the proprietor of the Sir Daniel Brewster publichouse at Lewisham, and also carried on business as a builder. On June 17 last a medical student named Malcolm Cowan, and a friend of Mr. Brewster's, called at his house. Brewster complained of headache, and Cowan suggested that he should take five drops of strychnine in a seidlitz powder, remarking that he often took it himself. Deceased asked Cowan to get it for him. Cowan went to Henry's shop, where he asked for five drops of strychnine, to be mixed with half a seidhtz powder. He was served by a young man named Eugene Henry, aged 22, the son of the defendant, but, instead of supplying five drops of strychnine, the assistant put in eight grains, which counsel said was sufficient to kill twenty persons. The bottle into which the strychnine was put was not labelled "Poison," but simply 'The draught," nor was there any statutory entry in the chemist's book of the sale of the poison. It was further alleged that the assistant made no inquiries as to what the poison was for. Mr. Brewster, who was a strong, hale, and hearty man of about 70 years of age, took the draught next morning, and in six minutes he was dead. At an inquest subsequently held the medical student and the chemist were severely censured, as was also the son. The widow now brought an action, under Lord Campbell's Act, to recover damages. Counsel said the act was one of very gross negligence, and complained strongly that the defendant had put in no appearance, which was really treating the case with utter contempt. After hearing evidence, the Under-Sheriff, in summing up, said it would have been more satisfactory had the defendant come before them, but he thought, perhaps, if the jury gave a verdict for a moderate amount it would be more advantageous for the plaintiff, as she would perhaps be more likely to get the money. The jury awarded the plaintiff 200%.

As another result of the same case Eugene Henry, chemist's assistant, of 128 Hither Green Lane, Lewisham, was summoned by Superintendent Butt, of the P division of police, at Greenwich Police Court on Tuesday, "for unlawfully selling a certain poison—to wit, strychnine—to one Malcolm Cowan in a vessel, such vessel not being distinctly labelled with the name and address of the seller of the poison, and omitting to cause any entry to be made of the sale in a book kept for the purpose, contrary to the statute." The evidence having been given, Mr. Fenwick told the defendant that it was a serious case, and fined him 5l and 12. costs.

[The legality of this conviction is doubtful. It is clear from the charge as reported that Henry was summoned under the 17th section of the Pharmacy Act, which expressly provides that "for the purposes of this section the person on whose behalf any sale is made by any apprentice or servant shall be deemed to be the seller." The seller under this section would, therefore, be Henry's employer,

that is, in this case, his father.]

Probincial Reports.

Items of news, and newspapers containing matters of interest to the trade, sent to the Editor, will much oblige.

BIRMINGHAM.

CRICKET.—The match between the married and single members of the Midland Counties Chemists' Association, which we announced last week, was played on Wednesday at Cannon Hill Park in beautiful weather. There was a good sprinkling of pharmaceutical spectators, and a fair show of ladies. The married men made a good fight, but they were overpowered by their less responsible antagonists. Mr. Thompson captained the married team, and Mr. Alcock led the single men. The scores were as under:—

Married.			Single.		
Crutchlow, b Alcock		8	Boucher, b Crutchlow		2
Prosser, b Boucher		5	Whitby, b Cripps	1	σ
Drew, not out		22	Chapman, b Crutchlow	2	8
Cripps, b Alcock		11	Alcock, st Drew, b Cripps	1	8
Thompson, b Boucher		1	Winfield, b Crutchlow		0
Selleck, c Asten, b Alcock		2	Nicholson, b Crutchlow	1	2
Wakefield, b Alcock		4	Spurway, b Crutchlow	1	8
W. Jones, b Alcock		0	Asten, b Drew	- 1	2
W. Southall, b Boucher		3	Paul, b Crutchlow	- (6
Morley, b Boucher		0	Hollick, c Barlow, b Crutchlow	- 1	2
F. Barlow, h w, b Alcock	• •	3	Rotherham, not out	1	0
Extras		. 7	Extras		9
Total		66	Total	9	7

BLACKPOOL.

A CURIOUS EFFECT OF CHLORODYNE.—On August 9, at the Blackpool Police Court, a woman named Hepworth was sent to prison for a month for the theft of various articles of wearing-apparel. The chief constable said the prisoner had evidently given way to the habit of taking chlorodyne, and was suffering from the effects of it. Seventeen empty bottles had been found in her possession.

DRIFFIELD.

THE MODERN METHOD.—Mr. Lewis B. Ross, "pharmaceutical chemist with honours," seems to have little hope of winning the favour of his neighbours by his diploma alone. On a handbill Mr. Ross describes himself as "chemist, gracer, and provision merchant," and he declares at the head of it, "No one shall beat me for price and quality." A few specimens from his list will suffice to show that the man who tries to beat him will have to "sit up":—Citrate of magnesia, 1s. per lb., 28 lbs. 10d. per lb., 1s. bottles $4\frac{1}{2}d$. each, cwt. $8\frac{1}{2}d$, ton $7\frac{3}{4}d$. Ross's Ex selsior baking powder, 6d, per lb., 6s. per stone. Pure boiled sweets, $2\frac{1}{2}d$. per lb, 2s. 9d. per

tone. "The County Tea, the finest blend in Driffield," s. 6d. per lb.; other teas, 1s. 2d., 1s. 8d, and 2s., black or ixed. Pure malt vinegar, 9d. per gallon. Homoeopathic coa, $7\frac{1}{2}d$. per lb. Lemon kali, 8d. per lb., 8s. per stone, ure jam, all kinds. Carbonate of soda, 1s. per stone, t. 6d. per cwt. Cream of tartar, 1s. 5d. per lb. Tartaric cid, 1s. 10d. per lb. Clothes-pegs, knife-boards, clothesnes, ham, and bacon are among the luxuries which Mr. oss deals in.

HANLEY.

BILL-POSTING.—At the Borough Police Court last week obert Shufflebotham, labourer, and Frederick Parry, of ayer Street, were charged with a breach of the by-laws of ie borough by posting bills without the consent of the owner the premises. Mr. Ashmall appeared for the defence. ispector Vickers gave evidence of having seen Shufflebotham ost a bill on the wall of a house at the junction of Bath reet and Market Street. He took him to the owner and cupier of the premises, Mr. George Ridgway, cabinetaker, who said he had not given consent to the posting of e bill on the wall. The bill denounced "Quacks and nackery," and advertised Parry as "a duly-qualified R.C.D." Shufflebotham was posting Parry's bills over those a person who described himself as "Professor Stewart." arry, on being spoken to, said, "Oh, I have had a case of at kind before, and it has been dismissed, and I'll bet you 70 pots this is." The magistrates' clerk (Mr. Hamshaw) served that Parry had committed an offence by attaching e letters M.R.C.D. to his name, the obvious intention being mislead [people into the belief that he was an M.R.C.S. urry said he was a member of a society of registered drugsts. Mr. Jones: There is no such society; it is a palpable position. Mr. Ashmall explained that Parry was registered a chemist under the Pharmacy Act, 1863. [The name of rederick Parry does not appear on the present register of emists and druggists, nor is there any registered chemist the list of the name of Parry given as residing at Hanley.] long legal argument took place between Mr. Ashmall and e clerk to the magistrates, the outcome of which was that e charge against Parry was withdrawn. Shufflebotham, wever, was fined 5l., including costs. The chairman, in aking this decision of the bench known, said his brother agistrates would be very glad indeed if they could put a op to this particular practice of posting objectionable bills. ie men who did the work performed their task at the dead night; and no one seemed able to detect them at it. He ust compliment the inspector that he had been enabled to ing one man to justice. The Bench were very sorry they uld not convict Parry, for they looked upon him as the al culprit. He did not know how they could reach him in other way, but it was to be hoped they would ultimately. e Court inquired of Parry whether he would not pay the e for Shufflebotham; and, upon receiving an answer in the gative, Parry was advised to reconsider his determination. entually Parry undertook to pay Shufflebotham's fine in a onth.

LEICESTER.

Boiled or Raw.—At the Leicester County Court last yek George Lenton, a cowkeeper, sued John George Kelly, temist and druggist, Charnwood Street, for 20l. for the loss a cow. The case was tried by a jury. Mr. A. T. Toller peared for the plaintiff, and Mr. Simpson for defendant. It Toller said the circumstances were rather peculiar. In oril last Lenton sent his daughter, a child aged 12, to fendant's shop for a pint of linseed oil, giving her a slip of per with the order written upon it. The shop was in carge of two young men, one of whom served her and targed 5d. Plaintiff wanted the oil for a cow, but ten hours er he had administered it the cow died, and there was no oubt at all that it was in consequence of having had boiled I seed oil instead of what was ordered. There was negligence the part of Kelly's servants, and the bottle bearing no led, there was nothing to guide plaintiff in any way. The fence was that the girl did not say what the oil was wanted f, and that when the question was put to her, "Boiled or ry?" she replied, "Boiled." If that was proved, Mr. Simpson lid that defendant could not possibly be held liable.

William Orton, the boy who sold the oil, said when the girl came in she asked for a pint of linseed oil. Witness knew there were two kinds, and in answer to his question the girl said she required boiled. The jury gave a verdict for plaintiff for 6l. 10s., with costs on that amount, and fees for counsel and scientific witnesses, payable 2l. a month.

LIVERPOOL.

DEATH FROM DEINKING CARBOLIC ACID.—A boiler-maker, named George Hunter, was taken to the Northern Hospital, Liverpool, on Tuesday morning, suffering from carbolic acid poisoning. He had got up early in search of a drink, and had swallowed the acid in mistake. Every attention was paid to the man, but notwithstanding he died in great agony an hour and a half after his admission to the institution. This is the second fatal case of the kind in a week.

CRICKET.—EVANS, SONS & Co. v. AIGBURTH.—A match was played at Aigburth on Saturday, August 11, on the ground of the latter (a club containing several retail chemists of the town). The score was as follows:—

Aigburth.	Evans, Sons & Co.
J. Woof, b F. L. Beckett 0	G. Brinson, b Woof 7
Slack, c Manley, b Beckett 3	F. W. Dyke, b Woof 1
E. Duff, e Young, b W. Evans. 9	F. L. Beckett, c Duff, b Sales 13
P. Chambers, b Beckett 0	W. Evans, c Doyle, b Woof 2
J. R. Day, b W. Evans 0	R. W. Manley, b Woof 2
T. Sales, b W. Evans 5	R. G. Owen, b Sales 0
Graham, b Beckett 4	J. McMillan, b Sales 3
Doyle, b W. Evans 0	G. Young, b Woof 0
W. Woof, not out 0	E Lewis, c Chambers, b Woof 1
McCormick, b Beckett 2	C. Jones, not out 1
Brown, b W. Evans 24	J. Blackstock, b Sales 4
Extras 1	E xtras 3
T otal 48	Total 37

In the second innings six wickets of the Aigburth had fallen for the small total of twelve.

MANCHESTER.

A CHEMIST'S ASSISTANT FOUND DROWNED.—Mr. J. F. Price, deputy coroner, held an inquest at Pendleton on August 13 on the body of Henry Wild (17), assistant, in the employ of Mr. T. S. Hambleton, chemist and druggist, 135 Ellor Street, Pendleton. On Wednesday morning, as he went to his work late, Wild was told to go home till dinnertime, and he would thereby lose half a day's pay. He left the shop, apparently in a very bad humour, and there was no evidence that he was seen alive after. His dead body was dragged from the Manchester, Bolton, and Bury Canal at Agecroft on Sunday morning. The jury returned an open verdict.

STOCKTON-ON-TEES.

MERCHANDISE MARKS ACT AND AËRATED WATERS.—On August 11, at Castle Eden Police Court, Thomas Spinks, mineral-water manufacturer, Stockton-on-Tees, was charged with using the bottles of another firm of Stockton mineralwater makers, to wit, Messrs. Wright & Hardcastle, thereby making use of prosecutors trade-mark, in contravention of the Merchandise Marks Act of 1887. Mr. J. Hunton, for the Northumberland and Durham Bottle Association, said that defendant was formerly in the employ of Messrs. Wright & Hardcastle. Latterly he had commenced business on his own account, and had used his former employers' bottle, as stated. Mr. Arthur Hardcastle proved registering the tra lemark on the bottles produced. In reply to Mr. Thomas, who appeared for the defendant, witness said he could not swear that the lemonade in the bottles produced was not his manufacture. The purchase of four dozen bottles of lemonade from the defendant by a Mrs. Graham was proved, and three bottles in the case were Messrs. Wright & Hardcastle's, and the others those of other makers in the district. Graham, examined by Mr. Thomas, said she purchased the four dozen as being defendant's own manufacture. Defendant did not attempt to deceive her. Mr. Hunton: But how about Mrs. Graham's customers? Mr. Thomas submitted that there was not the slightest attempt on the part of the defendant to defraud Mrs. Graham. She perfectly understood that she was buying Spinks's mineral water, which the defendant had not represented as anything else. The defendant being called, stated that most of the bottles he had started business with had been exchanged for those of other makers. Up to a recent period it had been the custom of the trade to use each other's bottles. The Bench said it was an unquestionable offence for one manufacturer to use another's bottles, and fined the defendant 20s. and 8s. costs. There were five other summonses out, in which were involved Messrs. Inman & Co., Leeds; Messrs. Everton and Messrs. Young & Metcalfe, West Hartlepool; Mr. G. Thwaites, Stockton; and Mr. George Anderson, Middlesborough; but it was agreed to let the present case decide the others.

TEWKESBURY.

COMPETITION.—One of the three chemists in this quiet town of some 3,000 inhabitants has recently startled his neighbours by the issue of an elaborate price-list of some sixty or seventy pages, with an illuminated cover printed in two or three colours, announcing a great reduction of prices in order to compete with the London stores.

WEDNESBURY.

CARBOLIC ACID IN A GINGER BEER BOTTLE .- On Sunday morning Benjamin Laugley, a labourer, aged 30, got up about six o'clock and went into the house of a neighbour named Benjamin Jones, whom he asked to give him some Jones, from under the dining table, the usual storage place for the beer, took a champagne bottle containing a beverage which he thought to be "pop." He handed it to Langley, who took a draught aud immediately exclaimed, "What have you given me?" and fell down. Jones smelt and discovered it to be carbolic acid. The doctor was summoned, but his services were unavailing. Mrs. Jones, it appears, had obtained the carbolic acid on the previous Friday from the Board of Health offices for the purposes of disinfection and vermin killing. It was supplied her in an anlabelled bottle, and she was unaware that it was poison. Mr. W. II. Coney, nuisance inspector, who was present, stated that it was his invariable custom to inform people to whom he supplied carbolic acid that it was of a poisonous nature. The coroner and several of the jurymen strongly condemued the practice on the part of the authority of allowing carbolic acid to be dispensed without labelling the vessels. A verdict was returned of "Death by misadventure," the coroner being desired to communicate with the town council, requesting them to immediately take steps to prevent a recurrence of similar mishaps, by having all vessels labelled, supplying it only to persons above the age of sixteen, and having each application for acid entered in a book to be kept for the purpose.

WEST BROMWICH.

CARBOLIC ACID IN A WINE BOTTLE.—On Tuesday night, Elliza Humphreys, 45, charwoman, of Swan Village, was admitted into the West Bromwich District Hospital suffering from the effects of poison. The woman was employed at the Lower Wrexham Inn, and whilst engaged in one of the offices she took a black wine bottle containing crude carbolic acid from off the mantelpiece and drank a portion of the contents. The assistance of Dr. Brown was procured, and the woman was removed to the hospital, where the stomach-pump was used.

IRELAND.

DUBLIN.

WAS IT AN IRON MIXTURE?—The Freeman's Journal says the prescription written by Sir Fielding Auld, M.D., for the Countess of Mornington on the occasion of the birth of her son Arthur, afterwards Duke of Wellington, is still preserved as an interesting record by the Messrs. Evans, the odestablished firm of chemists, of Dawson Street, in this city.

SCOTLAND.

ABERDEEN.

DEATH RATE.—The Medical Officer of Health (Professor Matthew Hay) reports that for July the rate was 1682 per 1,000, and in a note says this is very satisfactory when the unseasonable weather experienced is taken into account. Result to druggists: dull trade.

Dr. Gordon.—At the close of the summer session of the University the degree of M.D. was conferred on six graduates, Mr. John Gordon, M.B., C.M., formerly a pharmacist, being one of these. Dr. Gordon's thesis was on the Pharmacology of Paraldehyde, and to this highest honours were awarded.

CAUGHT RED-HANDED.—While the Turriff Police Court was sitting, on August 9, a message was received to the effect that a case of theft had occurred in the shop of Mr. Fewtrell, chemist. A constable was quickly despatched, and in a few minutes returned with the culprit (John Stuart, a vagrant) and the stolen goods. Stuart pleaded guilty, and was fined 20s, with the alternative of fourteen days' imprisonment.

ELGIN.

AN outbreak of pleuro-pneumonia is reported at the farm of Drumbain, tenanted by Baillie Ettles, chemist, Elgin, and the stock, numbering ninety, has been ordered to be slaughtered at the shambles, Rothes, by the local authority.

GLASGOW.

THE MEDICAL ASSOCIATION EXHIBITION.—The liberality of some of the exhibitors in distributing samples of their specialities to the doctors attending the meeting last week seems to have induced the belief in some minds that the exhibits generally were at the disposal of the visitors. Messrs. Green & Co. reported the loss of two valuable hypodermic cases, and it was said that several copies of Mr. Kingzett's "Nature's Hygiene" vanished from the Sanitas Company's stand.

WICK.

KILLED BY COLOCYNTH PILLS.—On Sunday last the daughter of a man named Donald Ganson, residing in Pulteneytown, eight years of age, managed to get hold of seven colocynth pills, which she swallowed, no doubt thinking them sweets. The girl died shortly afterwards.

NOTE ON COMMON MURIATIC ACID.

By F. H. ALCOCK, Birmingham.

THAT sulphuric acid finds its way into the common yellow hydrochloric acid of commerce is very well known, but that it is very variable in quantity and often largely present may not be so generally known.

This common acid is convenient to use in certain laboratory experiments when great purity is not required, in place of the purer and more costly B.P. acid, such as in processes for the production of carbon dioxide, the generation of sulphuretted hydrogen, and preparation of iron and tin solutions.

It was while making a large quantity of CO_2 from marble that the formation of much insoluble sulphate of calcium, due to the presence of the $\mathrm{H}_2\mathrm{SO}_4$, was noticed.

An examination of one sample of muriatic acid showed the presence of 3 34 per cent. H₂SO₄ (calculated as such) by weight, and a second sample was found to contain 9 97 per cent. of the H₂SO₄ by weight. Knowing that this common acid does very well for making the ferric chloride solution, which is much used here for staining or "browning" gum barrels, different samples of these solutions were examined, and almost all were found to contain the sulphuric radical. Samples of liquor ferri perchloridi were found, with one exception, to contain sulphate in variable quantities. In one exception, to contain sulphate in variable quantities. In one specimen which was sent for special examination the amount of H₂SO₄ present was 0.23 per cent. This quantity is small. It will, however, indicate the probable source of impurity. The one sample of liq. ferri perchloridi which was free from sulphate made a splendid tincture, and does not deposit at all. Perhaps the freedom from sulphate has something to do with the non deposition of oxy-iron sal¹s.

FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

THE PROJECT OF A VACCINATION INSTITUTE, to be concided at the city's expense, has been ahandoned by the ris Municipal Council. The idea was not without some od features, but it was so overloaded with political jobbery at it could not stand adverse criticism, and the scheme has en defeated, as it deserved to be.

SYLPHIUM OPACUM, the new heetroot parasite, will, cording to Professor Giard, require no arsenical dosing, as microscopical enemy of the insect has made its appearance, d hids fair to limit the multiplication of the pest. The rasite's parasite is a fly of the Tachinaris family, which is its eggs in the body of the sylph larva, where they pear like two or three white specks. The larva suffers no aparent inconvenience from the strange guests, but when it trus into the nympha state the eggs hegin to hatch, and the aggots feed on their host. At Fournes, a place where letroot is much infested with the parasite, as many as per cent. of the sylph larva were found to bear the eggs in cestion. Of course they will not be disturbed, as they pmise a copious crop of sylphium destroyers, but the pharaciets will miss the expected sale of arsenical compounds.

SENTENCE ON A PHARMACIST'S ASSISTANT.—Last month ce Paton, acting as assistant for M. Vié, a pharmacist on the Avenue du Maine, while resisting the legal inspection, into difficulty with the police. The occurrence was rated in The Chemist and Druggist of July 14, page 36, all need not he repeated at length. Last week Paton came ubefore the Correctional Tribunal to answer for his miscles, the most serious of which was the alleged attempt to be the police commissaire with a knife. The prisoner's cursel explained the knife away in the most natural manner. From was simply using an ordinary spatula, somewhat sharp all pointed, to scrape off labels, when the commissaire ran infrom the street, and imagined the prisoner meant to stab he hecause the spatula had heen flourished during the aument. All a mistake, evidently. Yet the court would neept so clear an explanation, and sentenced Paton to month's imprisonment.

HE FORTUNES OF A PATENT MEDICINE.—A certain tar p paration was invented some while since by one Boin de B upré, who named it Elatine, and made arrangements with Déclat and the Béral pharmacy for the sale of the stuff. Todoctor, for a commission of 15 centimes on each bottle sel, was to recommend the medicine. Pharmacist Lemetta, Béral's successor, was to have a monopoly of the sale, as to make things sure advertised it under the name of Etine-Béral. In 1877 Boin died, and his only child, Mme. R hefort de Lugay, finding in the defunct's estate nothing of alue hesides Elatine, which had acquired some notoriety, cased it to be made and sold by another pharmacist, to avd paying Déclat and Lemettais' percentages. Hence a lasuit hefore the Paris Tribunal of Commerce, which de ded against Mme. R., enjoining her from causing Elatine to e made, ordering her to pay damages, fine, &c. But the Pes Court of Appeals, before which the case lately came ur or revision, completely upset the lower court theories. It eld that Elatine-Béral, or Elatine-Déclat, heing a secret ready, not recognised by the Codex, its sale is ipso facto un wful, and consequently all agreements respecting the mi ufacture and marketing of the article are null and void. Thefore Déclat and Lemettais were declared to have no ca e for action, and ordered to pay all costs of hoth suits; th fine was hesides remitted, and the lower court's judgmet reversed altogether. The foregoing decision agrees wi French jurisprudence in regard to patent medicines. Th practice of a physician recommending for money some so of preparation is, hesides, repugnant to both opinion and cornon law, as jurisprudence has proved frequently.

ATIMATING LITHIA IN MINERAL WATERS.—Professor A. arnot (the hrother of the President) has recommended the following process in a memoir presented by Professor Frilel to the Academy of Sciences. The specimen of miral water, from 1 to 10 litres, is evaporated, and the alk ino-terrous carhonates, iron oxides, silica, sulphates, majesia, haryta, and lime, and, lastly, the ammoniacal salts,

are successively precipitated out, care heing taken to ascortain hy spectroscopical examination that the precipitates retain no lithia. A solution is thus obtained of the alkaline chlorides, with perhaps traces of magnesium chloride. liquor, having heen acidified with a little muriatic acid, is to he evaporated nearly to dryness with constant stirring, and the residue, bruised in a mortar, is maccrated with 90 per cent. alcohol. The solution, now containing all the lithia, is to be evaporated again to dryness, and the residue washed, first with strong alcohol, and finally with ethereal alcohol. The washings, on being evaporated to dryness, yield nearly pure lithium chloride. To estimate it, dissolve the crystalpure lithium chloride. To estimate it, dissolve the crystal-line mixture in 15 to 20 c.c. of water; add to the clear portion an equal volume of ammonia and a little fluoride of ammonium. After several hours' rest transfer the whole to a small filter, and wash the precipitate twice with the reagents. The filtrate may he calculated to contain for each 35 c.c. one milligramme of lithium chloride, which should he taken into account. The precipitate is now to he slightly ignited, to drive off the ammonia and ammonium fluoride, and may be weighed as lithium fluoride. The important feature of the process is the following, which will prove the correctness of the operation. The precipitated lithium fluoride is to be heated to dryness with a slight excess of sulphuric acid, to turn it into sulphate, and weighed again. With pure fluoride of lithium the sulphate obtained should weigh a little more than twice as much as the original precipitate. If the result agrees with the theory the operation may be considered accurate. When the sulphate weighs less than the theoretical amount, and it does not take much impurity to vitiate the results, it shows some chloride—most likely magnesium—had heen left hehind. The magnesium may then be estimated in the sulphate by the ammonium phosphate process, and deducted from the calculated amount of lithia. By the foregoing method Professor Carnot has found in two mineral springs of Burgundy, Maizières, and Santenay, 24 and 31 milligrammes of pure lithia per litre respectivelyan exceptional proportion.

GERMAN PHARMACEUTICAL NEWS.

(From our Berlin Correspondent.)

METHYLENEDOLCARBONIC ACID AND METHYLENEDOLACETIC ACID are the names of two new antiseptics. A paper has heen read concerning them hy Professor Pencoldt, from which it appears that the first occurs as white acicular needles nearly insoluble in cold water, though the sodium salt is more readily taken up by that menstruum. It was found to he very efficacious in the treatment of wounds, both fresh and ulcerated. Even 45 grains given internally were not observed to exercise any poisonous effect or to produce any unpleasant symptoms. As the preparation of the carbonic acid compound is very difficult and expensive, the methylenedolacetic acid has been made, and while much more cheaply prepared it is equal to the first-named in the treatment of wounds. Further trials are to he made in order to octermine if these compounds are preferable in antiseptic surgery to iodoform.

IODOFORM BITUMINATE is the designation of a combination of iodoform and tar which is introduced as heing devoid of the objectionable odour of the former substance. Dr. Ehrmann has used it in various cases of soft ulcers with good results. It occurs as a bronze-like powder, which seems to have a conspicuous odour of tar, and at the same time that of iodoform is not unrecognisable. It is difficult to say whether it is likely to have any extended application or not.

THE INTERNATIONAL HORTICULTURAL EXHIBITION in Cologne gives a good idea of the interest taken in the colonies, and also of that which the colonists are beginning to take in themselves and their products. The East African Society shows some heautiful copal and acacia gums, guttapercha, henna, the reddish brown colouring, m'swaki, a root used by the natives for cleaning the teeth, calumba root, sugar-cane, vanilla, tamarinds, &c. From New Guinea and Cameroon various drugs and products have heen forwarded, and by the German colonists of Ceylon vanilla, nutmeg, cinnamon, and other flavouring or medicinal agents. From Turkey specimens of opium are shown. The West African Society sends to

Berlin from the German colony of the south-west of the continent referred to gums, ivory, and drugs. These evidences of the awakening interest of colonists in the flora of their adopted country are interesting.

TREATMENT OF MALARIA.—The colonies are providing German medical literature with items on the treatment of malaria. A report appears in the Klin. Wochenschr. of the experience obtained in Cameroon. The medicinal agents employed were quinine, of which each patient on the average took 170 grains yearly, and cinchona bark in the form of a decoction (1 drachm to 6 ounces) was also resorted to. After the attacks of fever subsided iron was always given, either in the form of Blaud's pills or as the powdered sulphate. Eight-grain doses of calomel and opium (as Dover's powder or as tincture) were among the remedies tried, and as narcotics from 30 to 70 grain doses of bromide, and only exceptionally chloral. Subnitrate of bismuth was destitute of beneficial effect. Acetate of lead and ferric chloride were given when blood was passed with the excretions. Antipyrin was useful, and acted efficiently in doses of from 6 to 8 grains in reducing fever.

THE USE OF CREOSOTE IN PHITHISIS has suggested various preparations, the latest of which are a syrup of chlorhydric phosphate of lime with creosote and tolu balsam, and an effervescent water containing the compound named. On the latter Dr. Rosenthal publishes a long account in the Berlin. Klinisch. Wochensche. It is contained in glass bottles, each of which holds one decigramme of creosote, 5 grammes of brandy, and 5 ounces of acrated (carbonic acid gas) water. For poor patients he had a water of double the strength prepared. Frem one to four bottles per day he found very useful.

Wound-dressing Appliances.—It has been arranged that in the German Army every soldier shall be provided with a small wound-dressing package. It contains a quantity of oiled cloth, three yards of bandage, two small antiseptic compresses, and a safety pin. The directions are furnished that the wound should be first washed with pure water, with winc, or with brandy, the compress applied, then the oiled cloth, which is to be secured by the safety pin. The whole is then to be covered by the bandage.

Dispensing Conveniences.—Solutions of salts, concentrated infusions, ready mixed powders, &c , for use in dispensing are not allowed to be kept in Germany, and special efforts are made to detect violations of the rule by an examining commission. A few days ago this body of inspectors called upon a pharmacist in this city, who had himself been a very zealous member of a similar commission. During their official search a small closed drawer was found which the pharmacist explained was used for private purposes. The inspectors, however, got scent of some rodent therein, and pointing out that such "private" drawers were irregular and unrecognised adjuncts of the pharmacy, compelled the owner to open it, when lo! a varied stock of such solutions, infusions, &c., with some convenient but unhappily illegal combinations of powders and the like, that were regarded by the horrified inspectors as fertile sources of dispensing mistakes and poisoning cases. The chemist may be punished by having to submit to another search, with its attendant expenses, in three months, instead of the three years as usual.

THE COMPRESSED CARBONIC ACID GAS INDUSTRY, in consequence of the running out of the patent rights two years ago, is now worked in ten factories instead of in two as formerly. The Berlin Limited Company, the first of the kind (which has also works on the Rhine), has an annual sale of about 500,000 kilos.; of the compressed gas about 70,000 kilos. are used in Berlin daily. The price, with the increased competition, has fallen from 16m. for an 8-kilo. bottle to 7m., and finally to 5m. A considerable quantity of the substance is used for imparting the necessary effervescent properties to draught beer, &c., and for this purpose a proportion worth (now) about one-eighth of a penny per glass is required.

MESSES. BERDOE & Co, transfer agents and valuers, of Jewry Street, Aldgate, have taken Mr. W. S. Fish into partnership. Mr. Fish has been connected with the firm for the past thirteen years.

Foreign and Colonial.

PHARMACEUTICAL EXAMINATIONS IN HOLLAND .- The official report of the Commission of Dutch Examiners in Pharmacy for 1887-8, which has been recently published, lays particular stress upon several serious defects in the average acquirements of the candidates. According to the commissioners the candidates are generally very deficient in knowledge of the Latin language, the practical education of assistants in private pharmacies leaves much to be desired, too little time is given to laboratory work, and the study of pharmacognosia, especially from a practical point of view, is much neglected. It will be remembered that in Holland pharmacy is in a fair way of becoming a female occupation par excellence. For the chemists' assistants' examinations in July 69 candidates (28 male and 41 female) entered into competition, of which only 28 (7 male and 21 female) were successful.

A New American Drug House.—Under the "limited liability" law there has been organised in New Orleans a drug and chemical company, with a capital stock of \$150,000 in shares of \$25 each, and with the object to manufacture pharmaceutical preparations and chemicals, to import drugs and druggists' sundries, and to do a general wholesale drug business. Among the subscribers to the company are found the names of the following local druggists:—Messrs. Alexander K. Finlay, J. B. Lavigne, William Graner, J. N. W. Otto, F. C. Godbold, C. I. Keppler, E. Lalmant, P. L. Cusachs, Eugene May, William Bogel, Eric Brand, E. G. Wunderlich, Alfred Levy, G. Peter, B. Tuma, I. Behrend, W. T. Cluverius, P. H. Jensens, R. N. Girling. Mr. William Bogel has been elected president, Mr. William Graner vice-president, and Mr. John N. W. Otto secretary of the concern, which will commence operations on October 1, and employ several hundred people at the start.

AMERICAN PHARMACEUTICAL LAW-SUITS.—A law-suit of the Rumford Chemical Works, an American concern, against three dealers for selling an acid phosphate made by Parke, Davis & Co., of Detroit, Ill., has been decided by the Baltimore Court in favour of the defendants on the ground that descriptive words cannot be patented. According to this finding any American firm can make acid phosphates and sell them as such. Parke, Davis & Co. stepped into the breach and protected their customers, who are now privileged to handle the acid phosphate in question without fear of legal restraints. The case has been lingering on the calendar for two or three years, and there is considerable relief over its termination. Messrs. Parke, Davis & Co. also entered suit some time ago against the firm of Dundas, Dick & Co., for infringing their patent in making empty capsules, and have recently obtained from the New York court a permanent injunction against the latter firm.

THE TESTING OF OLIVE OIL.—The following test for the purity of olive oil is given by the chemist of the "Station Agronomique" of Nice:—Ten cubic centimetres of the sample are placed in a vessel with 2 cubic centimetres of nitric acid and 0 10 of powdered albumin. The mixture is then heated to boiling point over a spirit lamp so as to thoroughly mix the various constituents. Pure olive oil retains its yellow, slightly greenish tinged colour; but an admixture of 5 per cent. of seed oil will turn the liquid amber, and the more the olive oil is adulterated the darker does it become, an admixture of 50 per cent. of seed oil rendering it a deep orange. Nitric acid alone has the same effect except in cases of adulteration with poppy oil or oil of arachides (earth nuts). If so-called Lambert nut oil has been used as an adulterant the colour becomes pink with white patches. This nitric acid test causes subsequent precipitation, the precipitate varying, according to the percentage of adulterant used, from yellow to red.

SOUTH AMERICAN LINSEED.—The O. P. & D. Reporter in a recent issue gives some particulars of the cultivation of linseed in the Argentine Republic. In that country great attention has been bestowed of late years upon this crop as an export article, and the possible abolition of the import duty upon the seed in the United States is expected to open another enormous outlet for the article, which is now nearly all shipped to England. The planting of linseed was com-

nenced in the Argentine Republic ten years ago; its cultivaion is principally confined to the valleys of the River Plate,
where fertilisers are unknown and unnecessary and
mmense herds of cattle are raised on the wild grass alone.
in increased acreage has been planted in linseed every year
ince 1878, and two-thirds of the entire product are shipped
broad. The total exports from the Argentine Republic have
ncreased from 104,279 kilos. in 1878 to 69,426,104 kilos. in
885, but in 1886 shipments, owing to failure of the crop,
gain fell to 37,689,967 kilos., of which three-fourths went to
England and one-sixth to Belgium. The Argentine linseed
however, less rich in oil than the Calcutta seed.

OTTO OF ROSE DISTILLING .- An Austrian pharmacist who ecently spent a holiday by traversing Bulgaria on a bicycle vrites to the Pharmaceutische Post the following particulars oncerning the distillation and adulteration of otto of oses. The distilling apparatus generally used in the country onsists of a copper container, and the distillation product is cooled in large wooden vats. One of the largest firms in Cezanlik once tried to introduce modern distilling apparatus uch as is employed in large distilleries in Germany and lsewhere, but it was found impracticable in use. Red roses re used almost exclusively for distilling because they yield in oil of sweeter aroma, being richer in the aromatic principle of essential oils. But in order to obtain a nore easily solidifiable oil, freezing at 14° C., a certain percentage of white roses is added to the red ones, such a nixture yielding a product richer in stearopton than the ther. For adulteration, geranium oil, procured from Contantinople, is most frequently used. The oils are not nixed directly, but the rose-flowers are sprinkled with the ceranium oil before distillation, and the adulterant is thus nore intimately mixed with the genuine oil than could be the case otherwise. To make this manipulation successful a najority of white flowers must be used. The distillers are exclusively Bulgarians, mostly small men, although they count among their number a few large wholesale dealers, among whom Papazoglou, of Kezanlik, and Strausky and Kobaschieff, of Carlovo, are especially mentioned.

RUSSIAN TRADE IN DRUGS AND DYESTUFFS.—The following figures refer to the imports and exports of pharmaceutical articles and drysalteries from and into Russia in the years 1886 and 1887. The weight unit given is the pood (36·1 lbs.), and the value is expressed in roubles:—

Imports.

	Poods		Roubles	
	1886	1887	1886	1887
Caustic soda and potash	860	790	1,880,000	1,892,000
Chemical and pharmaceutical	1			
preparations, unenumerated	144	126	3,586,000	3,067,000
Hydrochloric acid	481	604	1.047.000	1,238,000
Cocoanut oil, palm oil, and glyce-			_,,	-,,
rine.	174	199	966,000	1,100,000
Dyestuffs	3 208	2,887	12,935,000	12.973 000
Glassware			1.716,000	2,387,000
Olive oil	689	913	8,040,030	8,976,000
Soda, pearlashes, potashes	750	1.140	1.078.000	1.871.000
Journalies, Poursies	100	1,140	1,010,000	1.011,000
				11

Exports.

	Poods	Roubles		
Hemp seed	1886 1887 796 1,0°0 10,209 19,720 9,195 11,820 4,478 6,531 1,257 1,078	1886 988,000 14,545,000 3,479,000	1887 1,184,000 26,871,000 6,617,000	
Oils (lubricating)	2,229 2,801 Degrees Trall 616,125 650,650	8,985,000	8,775,000	

PHARMACY IN BULGARIA.—The principal pharmacies of Bulgaria, such as those of N. Stransky, in Sophia, and Seltzer, in Plevna, are owned or managed by foreigners (Austrians), but in the more obscure country places the pharmacists are mostly of Bulgarian nationality. But the Bulgarian Government endeavour by all means in their power to close the craft to foreigners, and an enactment was recently made compelling every pharmacist in the Principality to keep

at least two Bulgarian apprentices, and to dismiss all foreign apprentices already employed within six months. But as not enough Bulgarians were found willing to embrace pharmacy as a profession, this law had to be modified to some extent, "one" being substituted for "two" in the compulsory clause respecting native apprentices, and all foreigners already engaged when the enactment was made being allowed to keep their places. The Bulgarian pharmacists, though nominally the law gives them a monopoly in the retailing of drugs, medicines, &c., in reality have a hard task to compete with the so-called "achters," or dealers in colonial products, who, previous to the emancipation of the Principality, possessed all the trade in pharmaceutical articles, and who, although now by law prohibited from doing so, still sell large quantities of these goods in a more or less surreptitious manner. For English pharmacists Bulgaria scarcely offers any opening. Salaries are microscopic (from 4l. to 8l. per annum out of doors for "Magister der Pharmacie," (fully qualified pharmacists), although living, in the provincial towns at any rate, is very cheap. A thorough knowledge of the Slav language is absolutely necessary to the dispenser, while in Sofia and the cities on the Danube, German, French, and Roumanian are also required. The Russian Pharmacopeeia is used in Bulgaria, and the dispenser must be intimately versed with its requirements, and also with those of the French Codex. English and Italian prescriptions are also frequently met with, the Bulgarian doctors belonging to almost every European nationality. The Bulgarian pharmacies are under the control of the Landes-Sanitäts-Rath (National Board of Health), consisting of a principal physician, three practising physicians, a veterinary surgeon, the official chemist, and a sccretary. This body has the right to grant concessions on the German system. All pharmacies are subject to inspection by the Board of Health, and a maximum tax which may be charged for prescriptions is fixed by law. There exists no professional organisation among the Bulgarian pharmacists, nor have they a journal to represent their interests, although two medical journals are already published in the country, one at Varna and one in Sofia.

NEW PHARMACEUTICAL REGULATIONS IN RUSSIA.—A commission was appointed some time ago by the Medical Department of the Russian Ministry of the Interior with the object of revising the regulations affecting the pharmaceutical profession. The commission terminated its investigations a few weeks ago, and has now submitted a report recommending important changes in the pharmaceutical laws. The classifications of pharmaeists into "Provisors" and "Magisters of Pharmacy" is to be continued, and a four-years course of study at a university will be required from candidates for the latter, or higher, grade. "Magisters of Pharmacy" will take equal rank with doctors of medicine both in civil and in military practice. Only qualified pharmacists will be permitted to open or conduct chemists' shops, nor will an Apotheker be allowed to sell or let his business to an unqualified person. In case of the death of an acting Apotheker, his heirs, if unqualified, must sell the business within twelve months to a qualified person. Pharmacics, being regarded as sanitary establishments, will be exempted from all public dues and taxes. The granting of concessions for pharmacies will be delegated to the local authorities, who will determine, once every ten years, the number of pharmacies required in their district. The taxing of prescriptions (viz., the fixing of a maximum rate which the Apotheker is allowed to charge for drugs), is left to the Medical Department of the Ministry of the Interior.

An entirely new departure is to be made as regards the admittance of women into the pharmaceutical profession, the Russian Government having decided to allow "persons of the female sex" to enter the craft as "apprentices," conditional upon a certificate that the candidate has passed through the four lower classes of a gymnasium. After having passed their usual apprenticeship, female candidates will be allowed to enter for the Assistants' and "Provisor" examinations either before the usual medical examiners or at the Military Medical Academy, at their own option. But they are not allowed to receive pharmaceutical instruction at a public establishment; the necessary knowledge must be acquired by private study only. Pharmacists who engage female apprentices or assistants are not permitted to keep male assistants.

Regal Reports.

THE APOLLINARIS COMPANY r. CLOOTS.

In the Chancery Division of the High Court of Justice on August 10, before Mr. Justice North, application was made on behalf of the plaintiff company for an injunction to restrain the defendant from selling mineral waters other than that of the plaintiffs' as "Apollinaris." The defendant keeps a restaurant in Victoria Street, Westminster, and it was alleged that he sold "Brunnen" water to his customers when "Apollinaris' was asked for. The defendant denied the allegation, stating that if on any occasion a mistake had been made it was owing to the hurry of business. At the suggestion of his lordship the defendant undertook not to sell, or allow to be sold or supplied, any other than the Apollinaris ompany's water when "Apollinaris" was asked for.

THE DENTISTS ACT.

On August 10, Mr. Henry Francis Partridge, of 76 Sternlale Road, Shepherd's Bush, appeared to summonses before Mr. D'Eyncourt, charging him with using at his business address, 43 Sussex Place, Old Brompton Road, the name and title of dentist, and the letters L.D.S. (Licentiate of Dental Surgery), thereby implying that he was registered under the Destists Act of 1878. Mr. Partridge is the proprietor and originator of the South Kensington Ladies' Dental Association, and held a diploma from the Royal College of Surgeons, Ireland, as Licontiate of Dental Surgery. He took to advertising, and the College of Surgeons, considering this unprofessional, cancelled his diploma, with the result that the General Medical Council of England withdrew his name from the Medical Register. Mr. Partridge applied for and obtained a mandamus against the Medical Council to compel them to restore his name to the Register, and this was decided in his favour. The Council appealed, but the decision of Mr. Justice Mathew was upheld. In giving judgment in the appeal case Lord Eshersaid that, although he had decided in favour of Mr. Partridge, the medical authorities could deal with him for "disgraceful" conduct, the word "disgraceful" being of course understood in the sense of "unprofessional" dealings. The suggestion made was acted upon. Notices in regular form were given to Mr. Partridge, and last year he was removed from the Register. Since that time he has made no alteration in his style of qualification and address. Mr. Elliott, on behalf of Mr. Partridge, said that there had only been a technical infringment of the Act, because the action of the Medical Association did not affect the defendent's capacity as a dentist. His skill remained with him, although his diploma had been taken away. Mr. D'Eyncourt fined Mr. Partiidge 51 and three guineas costs.

At Worship Street, on Tuesday, Dr. Huntley and Dr. Coe, summoned as of the American Dental Institute, 44 Finsbury Square, appeared to answer a charge of having, on July 27, taken and used the letters D.D.S., or some other uame, title, or description, implying that they were registered under the Dentists Act, 1878, as specially qualified to practise dentistry, whereas they were not registered under the said Act. Mr. Melsheimer, barrister, supported the summonses (which by arrangement were taken together), and Mr. Waddy, Q.C., defended. Mr. Molsheimer said that the prosecution was taken under Act 41 and 42 Victoria, and the prosecutors were the British Dental Association. The words of the Act, cap. 33, sec. 3, were followed in the summors, and the Amending Act added that no person should use any words or letters implying special qualification to practise dentistry without being registered. The American Dental Institute, counsel added, advertised as of St. James's Square, Finsbury Square, and Thurloe Square. The principal was a Dr. Chifford, who was registered. In the pamphlet issued by the institute the names of Dr. Huntley and Dr. Coe appeared, followed by the letters D.D.S. (Pennsylvania University), and D.D.S. (Boston University), respectively; but neither of those qualifications was recognised by the General Council of the British Dental Association, which only recognised under the Act the degrees conferred by Harvard and Michigan Universities (U.S.A.). He (Mr. Melsheimer) would show that the D.D.S. following the names of the defendants was

intended to represent that they were registered and specially qualified. Mr. Thomas Smitb, clerk to the solicitors to the Britisb Dental Association, narrated a visit he had paid to the American Dental Institute, 44 Finsbury Square, where he saw Dr. Huntley, and asked him what the letters D.D.S. meant. The defendant replied, "Tbey mean Doctor of Dental Surgery." Witness asked whether the pamphlet was issued with his (Huntley's) authority, and the defendant then wished to know why the questions were put, and witness told him that he was clerk to the solicitors of the British Dental Association, and the object of his visit. Mr. Huntley then said that his name was published with the letters with his consent. In a conversation that followed, the defendant said that the prineipal of the institute was Dr. Clifford, who was registered, but that he (Huntley) knew that nearly all the others were not. lle added that the British Dental Association could not touch them, as they worked for Dr. Clifford. Witness afterwards saw the defendant Coe, whom he asked similar questions, and Mr. Coe said that the DD.S. meant Doctor of Dental Surgery, and that the pamphlet with his name was issued with his consent. Mr. Waddy, for the defence, admitted that the defendants were not registered, but said they could not be, although duly qualified. He thought the Act a most miscbievous one, and that the exclusion of such colleges as those from which the defendants received their diplomas was never intended to have the effect of preventing their practising as qualified persons in this country. If the British Medical Council would recognise that fact there would be more sense than in their playing the part of the three tailors of Tooley Street. Mr. Waddy then proceeded to argue that the defendants had not offended against the legal intention of the Act by announcing themselves as D.D S.'s, because that was not a recognised special qualification, and he said it would be as stupid to take it as meaning that as it would be to assume that a gentleman entitled to put D.D. after his name thereby announced himself as a capable theologian, or that one writing M.A. (often a purely honorary degree) after his name was capable of editing a Greek play. Mr. Bushby reserved his decision.

HERBALIN.

On August 9, in the Chancery Division of the High Court of Justice, an application was made on behalf of the defendants in the case of Humphrics v. The Taylor Drug Company for further and better particulars. Mr. Justice Kekewich was the judge. Mr. J. Cutler appeared for the defendants, and Mr. G. J. Wood for the plaintiff. Mr. Cutler said the action was brought by the plaintiff, who carried on business at Bradford, and who had registered as his trade-mark for a drink prepared by him a certain device, to which he had added the word "Herbalin," and he complained that the defendants were infringing such trade-mark by using the word "Herbalin" on bottles containing a similar preparation manufactured and sold by them. The defendants alleged that they had been in the babit of using the word "Herbalin" before the plaintiff had registered his trademark. The plaintiff said the use of the word "Herbalin" by the defendants "had induced divers persons to purchase goods as and for the plaintiff's which were not of his manufacture." The defendants submitted that they were entitled to know who were these "divers persons." Mr. Wood opposed the application, and contended that the disclosure they asked was not necessary for their defence. If the allegation in the statement of claim had been that they were inducing "eustomers" of the plaintiff's to buy their goods, then he admitted they would be entitled to the names of the "customers" so induced, but there was no allegation here that any person who had been induced to buy the defendant's goods filled any particular relationship towards either the plaintiff or the defendants. His Lordship, in giving judgment, said he could not see that any hardship would be occasioned to the plaintiff by his being ordered to give up the names and addresses of the divers persons who, it was alleged in the statement of claim, had been induced to purchase the defendants' goods as and for the plaintiff's, and he therefore directed that the information asked for should be given. Mr. Wood asked for a fortnight's time to comply with the order, and said that the matter was so important to his client that it might be desirable to take the matter further. Mr. J. Cutler did not object to a fortnight's time

eing given if it was intended to appeal. His Lordship: ery well, then; if the plaintiff appeals within a fortnight here will be the usual stay; if not, he must give the parculars desired.

EXTRACT OF HERBS.

In the High Court of Justice, Chancery Division, before r. Justice Kay, on August 3, Messrs. Newball & Mason, of ottingham, manufacturing chemists, applied for an injunc-on against the Supply Stores Association (Limited), Dudley. he plaintiffs alleged that the defendants had infringed their ade-mark for "Extract or Essence of Herbs," and had sold, offered for sale, some extract or essence of herbs not made y them, but put into bottles and wrappers and generally ade up and prepared for sale in such a style as to imitate neir preparation. Mr. E. Swinfen Eady appeared for the aintiffs, and Mr. Sebastian for the defendants.

His lordship made an order perpetually restraining the efendant from infringing Messis. Newball & Mason's tradeark, and from selling, or offering for sale, any essence or stract of herbs not made by Messrs. Newball & Mason, put to bottles and wrappers and generally made up and pre-ared for sale in such a way as to represent or lead to the elief that it was Messrs. Newball & Mason's preparation. he defendants were also ordered to pay to Messrs. Newball ad Mason damages for the infringement and sale of the eparation in imitation of theirs, the damages to be ascer-ined by an inquiry to be held. Defendants also to pay

sts of the action.

FAILURES AND BANKRUPTCY REPORTS.

e J. Carisford Nish, 113 Stockton Street, Moss Side, Manchester, Commission Agent, Drysalter, and Aniline Dye Merchant.

A RECEIVING order was made against this estate on aly 24 last. The summary of the debtor's statement of fairs issued by the Official Receiver shows gross liabilities nounting to 1,390l. 16s. 1d, of which 1,118l. 12s. 1d. is cpected to rank against the estate for dividend; and assets timated to produce 225l. 13s. The principal creditors

:-	0		d.
	£	S.	11.
Read, Holliday & Sons, aniline dye manufacturers,		_	_
Huddersfield	251	5	8
Bryce & Rumpff, aniline dye merchants, 20 Booth			
Street, Manchester	251	2	6
Schad, Julius, drysalter, 14 Charlotte Street, Man-			
chester	157	1	9
J. S. Hymans de Tiel, merchant, 81 Fountain			
Street, Manchester	143	1	8
Dawson, John, aniline dye manufacturer, Kirk-		_	
heaton, near Huddersfield	104	11	3
	104		0
Thomas & Dower (Limited), aniline dye manufac-	67	10	12
turers, Garratt Lane, Tootiug, Surrey	60	10	11
Petersen, Ferdinand, snilinc dye manufacturer,			_
Schweizerhalle, near Bas'e, Switzerland	45	12	2
Blythe, W. & Co., chemical manufacturers, 65			
Mosley Street, Manchester	40	14	4
Thompson, W. G., & Co, aniline dye manufacturers,			
5 Cooper Street, Manchester	28	16	3
Lomax, Jas., & Co., drysalters, 75A Cannon Street,			
Manchester	14	11	6
Manchester Aniline Company, 55 High Street,			
	12	9	5
Manchester	14	J	0

the Official Receiver's observations it is stated that the ceiving order was made on the debtor's own petition on aly 24, and that on the same day he was adjudged bank-ipt. Up to September, 1887, he was a commission agent arrying on business at 12A New Cannon Street, Manchester. 1 that month he first commenced business on his own count, at the same premises, as a drysalter and aniline dye erchant. He also continued his agency business. He had it of capital when he commenced business and his office uniture and fixtures, which had all been paid for. He leges that he only became aware of his insolvency at the eginning of last month, and that he has not contracted any ebts with a knowledge of his insolvency. He sets down the

net loss arising from carrying on business as a drysalter and aniline dye merchant at 721% 5s. 3d., and he shows bad debts amounting to 1081. 9s. 3d. He attributes his failure to bad trade, heavy expenses, and keen competition. The first meeting of creditors was held on August 10, the Official Receiver (Mr. C. J. Dibb) presiding. Mr. James Fowler Kellas-Johnstone, 69 Princess Street, Manchester, was appointed trustee.

The public examination of the debtor took place at the Manchester County Court on August 15, before Mc. Registrar Lister. The debtor confirmed the statements made in the "observations" of the Official Receiver. The examination

was adjourned.

Re J. DARDS, Old Kent Road and London Road, S.E., Mineral-water Manufacturer.

MR. POPE, an acting Assistant Receiver, presided on Wednesday, at the London Bankruptcy Buildings, at the first meeting of creditors under this failure. The receiving order was made on the debtor's own petition on July 3 last, and the accounts show liabilities 2,650l. 11s. 8d, and assets 392l.5s. 8d., and stated to consist of cash, 11; stock-in-trade, valued at 71. 10s.; plant, machinery, tools, trade fixtures, fittings, utensils, &c., estimated to produce 3801.; good book debts, 21. 15s. 10d.; and surplus from security, 19s. 10d. The debtor formerly carried on business as a lighterman, and subsequently leased and sublet properties in the City until January, 1886, when he was adjudged bankrupt. No dividend under these proceedings was paid, and he obtained his discharge in August, 1886. He commenced his present business in July, 1887, with money advanced by his wife. She now claims for 1,750*l*, money lent; but this cannot rank for dividend in competition with the other creditors. On the application of Mr. Feather, representing creditors to the amount of 2201., Mr. E. M. Mullins, 128 Newington Causeway, was appointed trustee, with Messrs. F. Oakley, M. H. Glover, and J. Jarrett as a committee of inspection.

Re J. H. ATHERTON, Wigan, Chemist and Druggist.

THE public examination of this debtor was opened on August 14 at the Wigan County Court, before Mr. Penny, Deputy Registrar. Mr. W. S. France, jun., represented the bankrupt, and there were about a dozen creditors present. In answer to Mr. Winder, the Official Receiver, the debtor said. he commenced business as a chemist and druggist in Standishgate, Wigan, about six years ago on his own account. About February, 1884, he entered into partnership with Mr. William McConnell, but the latter did not bring anything as a set off to the capital and business he had already made. McConnell was to have an equal share of the profits. He (McConnell) borrowed 400% from his father at the time, but it was not agreed that that sum should be set off against his (the bankrupt's) interest in the business. The 400l. was laid out in business, another shop being opened in Ormskirk Road, Pemberton, which was in the hands of a manager. He and McConnell attended to the shop in Standishgate, and they went on as partners for four years. They did not take stock at every year's end. They each took out of the business 11. per week, but did not make any calculation whether the business was making 21. a week after the rent, taxes, and other expenses had been met. They occasionally added up their liabilities. He (the bankrupt) had nothing to do with the keeping of the accounts—his partner did that. In February this year they came to the partner did that. In February this year they came to the conclusion they had better dissolve partnership, but at that time he did not know what was owing. He knew that most of the creditors of the estate now were creditors during the partnership. When the partnership was dissolved, he agreed to give McConnell a promissory note for twelve months for the money he had borrowed from his father. He entered into no agreement to pay the liabilities of the firm. The payment cash book had not been added up since May, 1835, because he never had anything to do with the keeping of the books. He had used a receipt-book since McConnell left On July 14, 1887, they were insolvent to the extent of 6071. 19s. 6d., and if he had not since received 2201 from his father and wife his deficiency would now have been $827l.\ 19s.\ 6d.$ The Official Receiver said, as a trustee had been appointed, and he had not had time 'o go into the

matter, he would like an adjournment so that he (the trustee) could put questions himself. The examination was adjourned till October 2.

EDWARD JONES, 6 New Street, Kennington Park, Chemist. Mr. C. J. Stewart, an Assistant Official Receiver, presided on Tuesday last at the first meeting of creditors under this failure. The receiving order was made on July 18 last on the petition of Dr. Parrott, 1 Brunswick Terrace, Camberwell, and the debtor has filed accounts showing liabilities of 2041. 14s. 10d., and assets 5l., being the value set upon the stock-in-trade. The debtor, who is described as a pharmaceutical chemist, states that until Midsummer last he traded at 59 Camberwell Road. He then sold the business to Mr. George Bell, and has managed it for him under an agreement to pay him one guinea a week and retain the profits; but he further states he has made no payment in this respect. The debtor attended the meeting, and stated he had no offer to make to the meeting. He had in 1881 liquidated by arrangement at Leicester, and could not say whether he had received his discharge from those proceedings. A dividend of 36.6d. in the pound was then paid to his creditors. He received 361. from Mr. Bell for the business at Midsummer last, and paid the money away to various creditors. The chairman stated that as this was a summary case, the Official Receiver will remain as trustee. The public examination is fixed for September 6. The following are the principal creditors :--

Gazetic.

PARTNERSHIPS DISSOLVED.

Chadwick & Collins, Wrington, Somerset, surgeons and apothecaries. Hoole & Nourse, Parkhurst Road, N., general medical practitioners. King & Furber, Herne Bay, brewers and mineral water manufacturers.

THE BANKRUPTCY ACT, 1883. ADJUDICATION.

Jones, Edward, Camberwell New Road and New Street, Kennington, chemist.

ORDER ON APPLICATION TO APPROVE SCHEME.

Dixon, Henry Benjamin, Hanley, chemist-composition of 6s. 8d. in the pound, by three instalments of 2s. 3d., 2s. 3d., and 2s. 2d., at two, four, and six months. Adjudication annualled.

ADJUDICATION ANNULLED.

Dixon, Henry Benjamin, Hanley, chemist-approval of a composition of 6s, 8d.

ORDER MADE ON APPLICATION FOR DISCHARGE.

Barnes, William Jacob, Rainham, Essex, chemical manufacturerdischarge suspended for two months.

EXTRACTS FROM THE REGISTER OF DEEDS OF ARRANGEMENT.

The following deeds of arrangement with creditors have been filed at the Bills of Sale Office, under the provision of the Deeds of Arrangement Act, 1887. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision, in the Act, making any of these arrangements binding upon dissenting creditors.

Cooper, Thomas, Etwall, Derby, grocer, draper, and druggist—Trustee, H. A. Sale, 23 Chapel Bar, Nottingham, grocer. Date of ceed, August 10; filed, August 11; unsecured liabilities, 1891. 7s. 1d.; estimated net assets, 1001.

Fletcher, John, deceased (by executors and beneficiaries under his will), late Pilsworth Road, Hopwood, and the Poplars, Broadfield, Heywood, Lancaster, manufacturing chemist—Trustee, W. Nabb, Bury, C.A. Secured creditors, 4501. Date of deed, August 6; filed, August 11; unsecured liabilities, 1,1431. 18s. 10d.; estimated net assets, 1,0211. 4s.

EPIDEMIC DISEASE.

A N important memorandum on the proceedings which are advisable in places attacked or threatened with epidemic disease, which has been drawn up by Dr. George Buchanan, F.R.S., has been issued to sanitary authorities by the Local Government Board. In this memorandum it is stated that wherever there is prevalence or threatening of cholera, diphtheria, fever, or any other epidemic disease it is of more than common importance that the statutory powers conferred upon sanitary authorities for the protection of the public health should be well exercised by those authorities, acting with the advice of their medical officers of health.

Proper precautions are equally requisite for all classes of society. But it is chiefly with regard to the poorer population, therefore chiefly in the courts and alleys of towns, and at the labourers' cottages of country districts, that local authorities are called upon to exercise vigilance and to proffer information and advice. Common lodging houses and houses which are sub-let in several small holdings always require

particular attention.

Wherever there is accumulation, stink, or soakage of house refuge or of other decaying animal or vegetable matter the nuisance should as promptly as possible be abated, and precaution should be taken not to let it recur. Especially examination should be made as to the efficient working of sewers and drains, and any defect therein and any nuisance therefrom or from any foul ditches or ponds should be got rid of without delay. The ventilation of sewers, the ventilation and trapping of house drains, and the disconnection of cistern overflows and sink pipes from drains should be carefully seen to. The scavenging of the district and the state of receptacles for excrement and of dustbins will require close attention. In slaughter-houses, and wherever animals are kept, strict cleanliness should be enforced.

In the removal of filth during periods of epidemic disease it is commonly necessary to employ chemical agents for reducing or removing the offence and harm which may be involved in the disturbance of the filth. In the removal of privy contents these agents are more particularly wanted if the disease in question be cholera or enteric fever. The chemical agent should be used liberally over all exposed surfaces from which filth has been removed. Unpaved earth close to dwellings, if it be sodden with slops or filth, ought

to be treated in the same way.

Sources of water supply should be well examined. Water from sources which can be in any way tainted by animal or vegetable refuse, especially those into which there may be any leakage or filtration from sewers, drains, cesspools, or foul ditches, ought no longer to be drunk. Above all, where the disease is cholera, diarrhea, or enteric fever it is essential

that no impure water be drunk.

The liability of leaky pipes to act as land drains and to receive foul matters as well as land drainage through their leaks is not to be overlooked. And such leaky pipes, running full of water with considerable velocity, are liable to receive, by lateral insuction at their points of leakage, external matters that may be dangerous. This latter fact is not recognised so generally as it should be, and ignorance of it has probably baffled many inquiries in cases where water services have in

truth been the means of spreading disease.

If, unfortunately, the only water which for a time can be got should be open to suspicion of dangerous organic impurity, it ought at least to be boiled before it is used for drinking, but then not to be drunk later than twenty-four hours after it has been boiled. Filtering of the ordinary kind cannot by itself be trusted to purify water. It cannot be too distinctly understood that dangerous qualities of water are not obviated by the addition of wine or spirits. When there appears any probable relation between the distribution of disease and of milk supplies, the cleanliness of dairies, the purity of the water used in them, the health of the persons employed about them, and the health of the cows that furnish milk should always be carefully investigated. Even apart from any apprehension of milk being concerned in a particular outbreak of disease, it is desirable that English people should adopt the custom, which is always followed in some Continental countries, of boiling all milk at once upon its

reception into a house.

The washing and lime-whiting of uncleanly premises,

specially of such as are densely occupied, should be pressed ith all practicable despatch.

Overcrowding should be prevented. Especially where isease has begun, the sick room should, as far as possible, be ee from persons who are not of use to the patient.

Ample ventilation should be enforced. It should be seen nat windows are made to open, and that they are sufficiently pened. Especially where any kind of infective fever has egun, it is essential, both for patients and for persons who re about them, that the sickroom and the sick house be onstantly traversed by streams of fresh air.

The cleanliest domestic habits should be enjoined. Refuse latters should be speedily removed or destroyed; and things hich have to be disinfected or cleansed should always be

isinfected or cleansed without delay.

Special precautions of cleanliness and disinfection are ecessary with regard to infective matters discharged from ne bodies of the sick. Among discharges which it is proper treat as infective are those which come in cases of smallox and scarlatina from the affected skin; in cases of cholera nd enteric fever from the intestinal canal; in cases of diphneria and scarlatina from the nose and throat; likewise, in ases of any eruptive or other epidemic fever, the general exalations of the sick. The caution which is necessary with egard to such matters must, of course, extend to whatever is nbued with them; so that bedding, clothing, towels, handerchiefs, and other articles which have been in use by the ick may not become sources of mischief, either in the house o which they belong or in houses to which they are con-eyed. So far as articles of this class can be replaced by ags or things of small value, it is best to use such things nd burn them when they are soiled. Otherwise clothing nd infected articles should be subjected to the disinfectant f the sick room or be removed for disinfection by heat.

In enteric fever and cholera the evacuations should be egarded as capable of communicating an infectious quality o any nightsoil with which they are mingled in privies, rains, or cesspools; and after such disinfection of the mass s is practicable, they should be disposed of without delay and nder the safest conditions that local circumstances permit. hey should not be thrown into any fixed privy receptacle, nd above all they must never be cast where they can run or

oak into sources of drinking water.

All reasonable care should be taken not to allow infective lisease to spread by the unnecessary association of sick with lealthy persons. This care is requisite, not only with regard o the sick house, but likewise with regard to schools and ther establishments wherein members of many different ouseholds are accustomed to meet.

If disease begins in houses where the sick person cannot be properly accommodated and tended, medical advice should e taken as to the propriety of removing him to an infirmary r hospital. Every sanitary authority should have in readiless a hospital for the reception of such cases.

Where dangerous conditions of residence cannot be promptly remedied, it will be best that the inmates, while inattacked by disease, remove to some safer lodging.

Privation, as predisposing to disease, may require special

neasures of relief.

In certain cases special medical arrangements are necesary. For instance, as cases of cholera in this country often oegin somewhat gradually in the comparatively tractable orm of what is called "premonitory diarrhoea," it is essential hat, where cholera has appeared, arrangements should be nade for affording medical relief without delay to persons ttacked, even slightly, with looseness of bowels. So, again, where smallpox is the prevailing disease, it is essential that all unvaccinated persons (unless they previously have had smallpox) should very promptly be vaccinated; and that revaccination should be performed in cases properly requiring it.

It is always to be desired that the people should, as far as possible, know what real precautions they can take against the disease which threatens them, what vigilance is needful with regard to its early symptoms, and what (if any) special arrangements have been made for giving medical assistance within the district. For the purpose of such information printed handbills or placards may usefully be employed, and in cases where danger is great house-to-house visitation by discreet and competent persons may be of the utmost service, both in quieting unreasonable alarm and in leading or

assisting the less educated and the destitute parts of the population to do what is needful for safety.

The present memorandum relates to occasions of emer-Therefore the measures suggested in it are essentially of an extemporaneous kind; and permanent provisions for securing the public health have, in express terms, been but little insisted on. It is to be remembered, however, that, in proportion as a district is habitually well cared for by its sanitary authority, the more formidable emergencies of epidemic disease are not likely to arise in it.

Trade Hotes.

PENNY bottles of cherry blossom are now being hawked about the City.

MESSRS. HARDY & Co., chemists, have removed from the corner of Mincing Lane, Fenchurch Street, to the similar corner of Rood Lane, 23 Fenchurch Street.

MESSRS. C. R. HARKER, STAGG & MORGAN have now returned to their old address at 15 Lawrence Pountney Lane. The premises, which were destroyed by fire just a year ago, have been rebuilt and refitted, and in the new warehouse every modern convenience has been adopted to facilitate business.

THE SAN PABLO NITRATE COMPANY (LIMITED).—Capital, 160,000*l*. in 32,000 shares of 5*l*. each. Object, to acquire the San Pablo Nitrate Works and estate of over 1,500 acres of nitrate of soda "caliche" deposit, in the Province of Tarapacá, Chili, and to carry on the business of nitrate of soda and iodine manufacturers and exporters.

THE directors of Brunner, Mond & Co. (Limited), in their report for the half-year ended June 30, announce a profit balance of 99,852l, which, with 34,988l. brought forward, makes a total of 134,840l. They propose dividends on the preference capital at the rate of 7 per cent. and on the ordinary capital at 25 per cent. per annum, 7,500l. being written off patents account and 25,000l. placed to the reserve fund, 20,648% being carried forward. The sum which it is proposed to write off patents account will raise the amount written off this account to 83,558l., and will leave the account standing at 27,962l.; and the 25,000l. which it is proposed to add to the reserve fund will bring that fund up to 126,500l.

Obituary.

DAVIES .- On July 30, after a long and painful illness, Richard Morgan Davies, pharmaceutical chemist, of Carmarthen. Aged 71.

RACKHAM.—On July 29, Mr. Francis Kirby Rackham, chemist and druggist, Lower Marsh, Lambeth. Aged 76.

WARNER -On August 11, suddenly, at No. 1 West Mall, Clifton, George Thomas Warner, chemist and druggist. Aged 59.

WAVELL .- On July 24, Mr. Henry Mace Wavell, chemist and druggist, High Street, Newport, Isle of Wight. Aged 83.

WHITE .- On August 10, Mr. Thomas White, chemist and druggist, Church Street, Launceston. Aged 53. On the day of his death Mr. White distributed the prizes at the national school. In the evening he was seized with paralysis, and, never rallying, died in a few hours. Mr. White, who was 53 years of age, was a member of the Launceston Board of Health and trustee of the national school, and carried on a large business in the town for over twenty-five years.

BANKRUPTCY.—The number of "chemists, druggists, and chemical manufacturers" in whose cases receiving orders in bankruptcy have been gazetted during the seven months of 1888 ending July 31 was 31. In the corresponding period of 1887 the number was 19. "Doctors of medicine and physicians" are 9 so far against 10 in the first seven months of 1887.

Brokert

£120,000

£100 000

South

Wale

£30.0.0

£105,000

EXPORTS OF BRITISH DRUGS AND CHEMICALS.

THE diagrams on this page are graphic representations of the exports of drugs and medicines from Great Britain during the past five years. They do not include the reexports of foreign and colonial produce when these are expressly so described. They represent generally the packages sent out by the export druggists, and of course include a good many chemical manufactures, though the goods exported expressly as chemicals are represented more accurately on the next page.

It is to be remarked that the figures on which these diagrams are based indicate only ralues of the exports. As prices generally have fallen considerably, it is obvious that a straight line would indicate a large increase of trade, while on the other hand an unvarying amount of trade would require an oblique line slanting downwards.

Each square of the diagrams on this page, reckoning perpendicularly, represents 1,000*l*., and three squares horizontally cover a year.

The diagrams may be read as if all the lines were shown on a single one, the only object of multiplying the diagrams being to avoid confusion by the too frequent interlacing of the lines. The best customers of Great Britain for articles classified as "drugs and medicines" are therefore British India (far above all others), then New South Wales, then Victoria, then Brazil, next the United States, New Zealand, Canada, and so on.

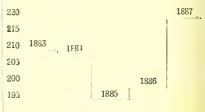
In order to compare each purchasing country with the total export trade done by the United Kingdom in this class of merchandise, we append a diagram indicating the course of the trade for the past five years therein. The figures in the margin each represent 1,000l.



It should be explained that neither cinchona nor opium, nor any other article expressly specified in the Board of Trade returns, is included in these estimates.

EXPORTS OF BRITISH CHEMICALS.

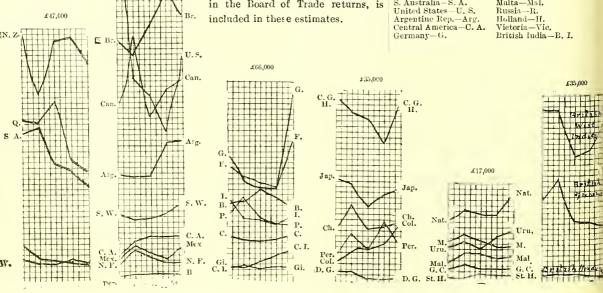
The diagrams printed on the page opposite are on the same plan as those given on this page, except that as regards chemicals, each square taken perpendicularly represents 10,000%. The exports referred to do not include goods generally classified as "alkali," nor do they include chemicals of foreign origin when exported rominally as such. The following diagram indicates the fluctuations of Great Britain's total exports for the past five years in this class of goods, the figures indicating this time so many tens of thousands of pounds.



The following are the abbreviations used:—

New Zealand—N. Z.
Queensland—Q.
W. Australia—W. A.
Canada—Can.
Spanish West Indies—
S. W.
Newfoundland—N. F.
Italy—It.
Ceylon—C.
Cape of Good Hope—
C. G. H.
U. S. Colombia—Col.
Mauritius—M.
Gold Coast—G. C.
Sweden—Sw.
Spain—Sp.
New S. Wales—N. S. W.
China—Ch.
S. Australia—S. A.
United States—U. S.
Argentine Rep.—Arg.
Central America—C. A.
Germany—G.

Belgium—B.
G.braltar=Gi.
Japan—Jap.
Dutch Guiana—D. G.
Urugnay—Uru.
St. Helena—St. H.
Norway—Nor.
Austria—Au.
S. Africa—Afr.
Tasmania—T.
Brazil—Br.
Mexico—Mex.
Bermuda—Ber.
France—F.
Portugal—P.
Channel Islands—C. I.
Chili—Ch. §
Natal—Nat.
Malta—Nat.
Malta—Nat.
Holland—H.
Vietoria—Vic.
British Iudia—B. I.



ıil

BRITISH AND FOREIGN CONSULS' REPORTS.

CHILI.

Drug Exports. The following are values of the principal articles of pharmaceutical interest exported from Chili during 1885 and 1886, in Chilian lver dollars, equal to 3s. 2d. sterling:—

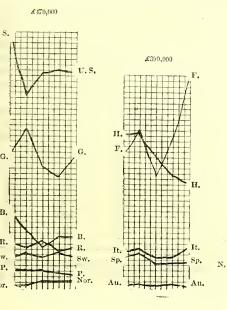
_	_		United Kingdom	Germany	France	United States
swax ney ine ilaya		1885 1836 1885 1883 1885 1886 1886 1886	20,865 23 238 32,251 45,470 1,352,050 1,070,769 12 600 19,479	35,258 42,712 40,571 45,011 606,120 274,550 21,695 28,851	5,694 15,068 29 5 9 24,805 — 10,964 32,154	609,150 401,080 3,727

ITALY.

The dregs left in the boilers in which grapes Tartar have been treated for the manufacture of Materials Materials alcohol are pressed, and the watery substance at Barletta, thus gained is led into wood reservoirs, where forms, by cooling, another important article of commerce, z., half-refined tartar, of which about 450 tons, worth 000,000f., are produced every year, and exported to ermany, France, the United States, and also, though in ery small quantities, to England. A limited company with capital of 500,000f. has been formed, with the intention of orking these tartars into cream of tartar and tartaric acid, ad it is expected that they will begin work during the oming autumn. Wine lees are also prepared in this district y pressing and then drying up the residues of wine which orm in the casks where the wine is kept. About 500 tons early of this stuff, to the value of 300,000f., is exported to ermany and France. The exports were as follows:

		18	87	1886		
tar ne lees	::		450 tons 500 "	1,000,000f. 333,333 ¹ / ₃ f.	500 tons 690 ,,	1,200,000f. 360,000f.

During the year 1887 Naples imported from abroad 242,387l. worth of drugs, colonial produce, and tobacco, against 553,795l. in the eceding year. Of chemicals, medicines, and perfumery, 1727l. were imported in 1887, and 149,468l. in 1886.



TURKEY IN ASIA,

Gum
Tragacanth.

In 1887 the crop throughout Asia Minor was such a bad one that only half the usual quantity was brought into Smyrna, and only about 1,800 cases (of 100 to 125 kilos, each, net) were exported. Notwithstanding this, prices remained low in consequence of the severe competition between the Smyrna and the Constantinople dealers. Most of the Smyrna exports are shipped to France, England, Austria, Germany, and the United States.

The accumulation of heavy stocks of root in

Liquorice Juice and Root.

The accumulation of heavy stocks of root in America and the large extension of digging-grounds in Syria and along the coasts of the Black and Red Seas have brought about a heavy reduction in the value of the drug, of which about 60,000 pressed bales, each weighing about 4 cwt, are exported every year. A new juice-boiling factory was started in 1837, and its competition with the old works has reduced the price of the SC (superfine) brand from 110% to 92f., and of VB (fine) brand from 93f. to 86f. per 100 kilos. From 4,000 to 5,000 cases, weighing 90 to 100 kilos., form

the average annual export.

The Drug Trade.

The consumption of drugs and chemicals in Smyrna is very considerable, and in 1837 alone over 1,500 packages were landed, not counting a large number of cases containing quinine preparations, mostly of inferior quality. London, Paris, Vienna, Stattgart, and Milan have most of the Smyrna trade. The importation of German drugs, especially febrifuges (a very large article of consumption in the Levant) has much increased since 1835. Among chemicals, which are mostly procured from England, France, and Italy, and lately also from Germany, sulphur, soda, and potash salts are the principal ones. Sicilian sulphur is much used to combat the oidium or blight in the vines, while English soda finds a continually increasing employment in the flourishing local soap industry. The use of potash for drying grapes is also increasing. This article is procured from England (viâ Amsterdam, the cheapest route), Austria, and very largely from Cologne.

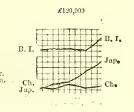
TURKEY IN EUROPE.

Chemicals A noteworthy feature in British trade at for Salonica. Salonica is the increasing demand for chemicals for Salonica. from England, caused by the development of native industries in Monastir and other districts in Macedonia. The importers, however, complain that most of these chemicals, copperas in particular—are packed in barrels made of thin staves, badly jointed and hooped, and not fit for inland carriage. The prices paid are as follows:—Indigo, Madras, 2s. to 3s.; Kurpah, 3s. to 4s.; Bengal, 4s. 10d. to 6s.; cochineal, 1s. 4d. to 1s. 6d. per lb.; alum, 6s. to 6s. 5d.; copperas, 3s. 6d. to 4s.; and sal-ammoniac, 36s. to 38s. per cwt.

French merchants desiring to extend their com-Merchants mercial relations with the district of European Should Turkey of which Adrianople is the centre are advised by the French Consul in that city to combine for the purpose of establishing a depôt of French goods, under the management of an experienced local merchant knowing the habits and wants of the native population. It is suggested to allow the agent a fixed salary of, say, 10,000f, per annum, at which a suitable person might, the Consul thinks, be found without much difficulty. The combination scheme would have the advantage of reducing the incidental charges, freight, &c., on the products traded in, and prove of great advantage to its promoters. Among the articles especially saleable at Adrianople are named crude drugs and prepared medicines, soaps, essences and perfumery, spices, indigo, and fixed oils.

£60,000

£60,000



TRADE "SANITAS" MARK

DISINFECTANTS

(FLUIDS, POWDER, SOAPS),
NON-POISONOUS, PLEASANT, AND BEST.
Gold Medals, Calcutta 1883-84, Paris 1885, Antwerp 1886.

KINGZETT'S BACTERICIDES

Particulars sent on application to

THE "SANITAS" COMPANY LIMITED Letchford's Buildings, Bethnal Green, London.

'SECURUSJUDICATORBISTERRARUM'

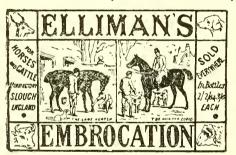
Apollinaris "THE QUEEN OF TABLE WATERS."

The filling at the Apollinaris Spring during the year 1887 amounted to

11.894.000 Bottles.

GEE SEABURY & JOHNSON'S ADVERTISEMENT of ABSORBENT COTTON LINT AND GAUZE on page 53.

SHOW CARDS, 24 × 17 or 17 × 12,



Free to any Address.

SILICATED CARBON FILTERS

PATENT MOVABLE BLOCK. See Advertisement, page 18 (bottom folio).

Protected by



Royal Letters Patent

DALT REGAL

In bottles hermetically sealed. 2'6 Regularly stocked by Wholesale Houses.
Usual Trade Terms. Sole Proprietors...

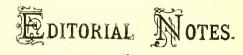
FRITZ & CO., Salt Regal Works, Fleet St., LIVERPOOL.

MUMFORD'S PURESTARCH POWDER

In 56-lb. and 1 cwt. bags, 26s.; in 7,14, and 28-lb. bags, 28s. per cwt. net, bags included, delivered free in London. [1]

6. S. MUMFORD, STEAM MILLS, FARRINGDON ROAD, LOIDON, E.C.

No you make your Tinchures and Infusious with Fletchers' New diquors? I fnot, 5 and to the Manufacturers for a Trial Sample.



STATISTICS OF THE MEDICAL PROFESSION.

A VERY interesting report, edited by Mr. W. J. C. Miller, the Registrar to the Medical Council, has just been issued under the authority of the Statistical Committee of that body. It is the first part of an investigation as to the geographical distribution of medical men in this country. The facts given are taken from the official register, and for the purpose of the present inquiry those relating to England and Wales only have been selected; the facts concerning Scotland and Ireland are to be published subsequently.

The two years 1881 and 1886 are adopted for this census, and comparisons are instituted between the statistics of those two years. It is intended to continue this quinquennial analysis, the first coinciding with the census years of the whole population, and the second equally dividing these periods.

At the end of 1881 there were residing in England and Wales 15,022 registered medical practitioners; at the end of 1886 the number was 16,930. Calculation shows that in the former period each had an average area of 2,479 acres, but that in 1886 this average area was reduced to 2,1996 acres. It also appears that the number of medical practitioners is increasing at a greater ratio than the population of the country; for while in the former year there was one practitioner to each 1,747 inhabitants, the proportion became one to 1,662 in 1886. In other words, the net increase of the medical profession was 826 over and above the proportion necessary to keep pace with the increase of population.

The foregoing figures do not convey much useful information, however, until they are supplemented by more details; and these the report goes on to give. The next section shows where medical men do most congregate and where they are sparsely scattered. In London they increased from 3,837 in 1831 to 4,467 in 1886—that is, 1 to 1,007 inhabitants in 1881, and 1 to 939 in 1886. Dividing Eogland and Wales into districts, and omitting the metropolis, it appears that the proportion of medical practitioners to the population generally stands as under in the two years:—

-	1831	1886	1831	1886
South-Eastern South Midland Eastern South-Western West Midland North Midland North-Western York-Shire Northern Wales	Number of	Practitioners,	0n	e to
	1 803	2,074	1,374	1,284
	874	919	1,841	1,849
	665	695	2,987	2,098
	1,239	1,341	1,495	1,372
	1,432	1,565	2,139	2,665
	753	796	2,240	2,293
	1,793	2,073	2,319	2,209
	1,206	1,448	2,423	2,192
	751	800	2,181	2,239
	669	751	2,369	2,239

London, as might be expected, including as it does somany practitioners whose patients are scattered over the hole empire, numbers more than a double proportion when mpared with the extra-metropolitan area. Other tables ow that the Registrar-General's well-known twenty-eight rge towns, which (including London) had in 1886 a total opulation of 9,142,951, monopolised the services of 7,120 edical men; while the rest of the country, with a total pulation of 18,992,964, was attended 16 by 9,810 qualified octors. That is to say, 42 per cent. of the whole medical my is employed to protect the 9,000,000 inhabitants of the rge towns, while the remaining 19,000,000, scattered over vastly greater area, are left to the care of the other per cent. This brings out the curious result that country octors hold on an average a clientèle nearly twice as tensive as that which suffices for their urban brethren. hich are the more generally prosperous it is beyond the wer of the registrar to indicate. It is shown in another art of the report that the country practitioners are genelly better qualified than those in the towns. Among the rmer there are but 12.16 per cent. of only singly qualified en, while in the towns there are 16:30 per cent.

The tables showing the distribution of practitioners in the rge towns and counties is of considerable interest, and we

note it entire as it is given for 1886:—

Average Number of
Large Towns. Persons to each Practitioner in 1886.
15. Preston 2,213
16. Nottingham 2,232
17. Hull 2,232
18. Birkenhead 2,245
19. Halifax 2,250
20. Lceds 2,250
21. Sunderland 2,293
22. Derby 2,323
23. Cardiff 2,333
24. Sheffield 2,593
25. Bradford 2,722
26. Blackburn 3,129
27. Oldham 3,147
23. Salford 3,908

The following is a similar list of the counties, exclusive of e large towns:-

Average Number of	Average
Counties, Persons to each ural Portions. Practitioner	Counties, Person Rural Portions. Prac
aral Portions. Practitioner in 1886.	Rural Fortions. Frac
Somersetshire 1217	28. Carnaryonshire
Devonshire 1,217	29. Denbighshire
. Hampshire 1,224	30. Gloucestershire
Westmoreland . 1,250	31. Snffolk
Snrrey 1,295	32. Norfolk
Sussex 1,318	33. Lincolnshire
Kent 1,352	34. Cumberland
Cambridgeshire . 1,390	35. Brecknockshire
. Berkshire 1,432	36. Northumberland
. Herefordshire 1.447	37. Cheshire
Merionethshire 1,459	38. Carmarthenshire
Oxfordshire 1467	39. Leicestershire
. Radnorshire 1.500	40. Huntingdonshire
. Rutlandshire 1,505	41. Nottinghamshire
. Shropshire 1,521	42. West Riding, York-
. Dorsetshire 1,545	shire
. Warwickshire 1,621	43. Monmouthshire
. Bedfordshire 1,645	44. Essex
. Hertfordshire 1,704	45. Pembrokeshire
. Cardigaushire 1,713	46. Lancashire
. Cornwall 1,733	47. Worcestershire
. North Riding,	48. Buckinghamshire
Yorkshire 1,743	49. Glamorganshire
. Wiltshire 1757	50. Northamptonshire
. Middlesex 1,760	51. Durham
. East Riding, York-	52. Derbyshire
shire 1.831	53. Flintshire
. Anglesey 1844	54. Staffordshire
. Montgomeryshire 1,847	

	e number ns to each
Rural Portions. Pra	ctitioner
	in 1886.
28. Carnarvonshire	1,851
29. Denbighshire	1,867
30. Gloucestershire	1,899
31. Snffolk	1,903
32. Norfolk	1,913
33. Lincolnshire	1,969
34. Cumberland	2,061
35. Brecknockshire	2,091
36. Northumberland	2,109
37. Cheshire	2,184
38. Carmarthenshire	2,250
39. Leicestershire	2,255
40. Huntingdonshire	2,283
41. Nottinghamshire	2,296
42. West Riding, York-	
shire	2,319
43. Monmouthshire	2,350
44. Essex	2,408
45. Pembrokeshire	2,414
46. Lancashire	2,473
47. Worcestershire	2,656
48. Buckinghamshire	2,717
49. Glamorganshire	2,751
50. Northamptonshire	2,821
51. Durham	2,835
52. Derbyshire	3,075
53. Flintshire	3,326
54. Staffordshire	3,352

The ultimately most important result remains to be given. and we are glad to find that the Registrar does not shirk it. On the contrary, he states it with what seems to be something like relish-certainly in language which may be taken for irony. The question must occur to every inquirer, How does the proportion of medical men correspond with the death-rate? It must be admitted that the statistics given under this heading are not on the whole glorious for the profession. We prefer, however, on this point to quote the Registrar's own summary of his statistics. He says:-

"A close examination of this table reveals the fact that the comparative death-rate of a division is independent of the mere number of practitioners in that division. Thus, London, which has the greatest proportion of practitionersthat is, as a division; Brighton has most as a large town-is, as regards its death-rate, next to the highest, the highest being the North-Western. Again, on comparing the Eastern and the South-Western divisions, we find that the former has fewer practitioners by far, and yet a lower death-rate.

" Nor does the death-rate appear to decline in a particular division as the profession increases, except in London and Yorkshire. It is true that in the South Midland, the Eastern, and the North Midland districts the death-rate increased as the profession declined, but the increase of the former was out of all proportion to the declension in numbers of the Moreover, in the South-Eastern, the South-Western, the West Midland, the North-Western, and the Welsh divisions, as the profession became more numerous the death-rate ran up; whilst in the Northern division, as the profession became proportionately less numerous, the death-rate also declined. There would thus seem to be a limit to the requisite number of practitioners in a district to produce the most beneficial results. But the fluctuations in the death-rate are such that there need be no damage experienced to the professional anour propre. This is clearly shown in the last line, giving the death-rates for England as a

We can only say that if the medical amour propre is soothed by the figures in this last line, it is very moderate. They indicate only that while in 1881, with a proportion of one doctor to 1,747 persons, the death-rate of the whole country was 189, in 1886, with one doctor to 1,662 persons—that is with greater medical advantages-the death-rate had increased to 193.

CARBOLIC ACID IN GINGER-BEER BOTTLES.

"AT Wednesbury, on Sunday night, an elderly man named Edward Langley visited a neighbour in Wilcroft Street, and was asked to have ginger beer. By mistake a man gave him a ginger-beer bottle containing carbolic acid. He drank some of the liquid, and it was immediately discovered thathe had drunk acid. A surgeon was promptly in attendance, and used the stomach-pump. Langley, however, died, after suffering excruciating agony for an hour." Paragraphs more or less like the one just quoted occur in London and provincial papers with frightful regularity. This is only one out of three similar occurrences which we report in our provincial news this week. Liverpool alone is averaging two deaths from carbolic acid poisoning per week. We have again and again directed attention to the many perfectly preventable deaths due to the reckless sale of the substance, generally by oilmen. Carbolic acid seems to be generally supplied in cups, wine bottles, and ginger-beer bottles; the latter seem. to be the generally preferred vehicles. In most cases nolabels are attached, and there are, no doubt, at this moment many gallons of the deadly stuff standing around in such receptacles, and a number of thirsty throats drawing near to their horrible fate. But let it be understood that it is perfectly legal to supply carbolic acid in the same easy fashion as milk is sold. The Pharmaceutical Council some years ago

brought the matter under the notice of the Privy Council, and proposed the addition of carbolic acid to the schedule of poisons; but the latter body did not see the necessity, and the noble statesman then at the head of the Privy Council told his complacent brethren in the House of Peers that carbolic acid was only "rather poisonous." From that time to the present it has been steadily improving its position in the Registrar-General's list of deaths from poison, and for some time past has figured as a good second in that respect. The medical department of the Privy Council is specially charged in the interests of the public with the supervision of the laws affecting the sale of poisonous substances; evidence and recommendations have been brought to their potice again and again, and their practical refusal to exercise the powers which have been entrusted to them is, if not explainable, little short of disgraceful.

OUR TRADE IN CINCHONA BARK.

In our market report we publish this week an interesting table giving the weight and value of cinchona bark imported into and reshipped from the United Kingdom during the last five years, from and to the principal countries with which we deal in that commodity. These statistics show that from 1883 to 1887 inclusive we have imported into the United Kingdom 639,360 cwts. of cinchona, and re-exported 534,127 cwts., leaving for our own consumption 105,233 cwts. in five years' time, or, say, about one-sixth of our entire imports. If we take into account the fact that we entered upon the year 1883 with the stock of 3,500 cases and casks and 67,176 serons cinchona, or, say, an aggregate of 74,176 cwts, and were eft at the end of 1887 with a supply, in the first hand, of 11,333 cases and casks and 48,286 serons, or about 70,952 ewts, altogether, we find that we must add about 3,224 cwts. for the decrease in our stock to the balance of 105,233 cwts. excess of imports over re-exports to arrive at the nearest possible estimate of our actual consumption of cinchena for all purposes. This, upon the above named hasis, has averaged about 21,691 cwts. per annum since 1883, less, of course, than we export to Germany alone, directly and vid Holland, but still a respectable enough quantity. Looking at our cinchona mports, we find that their aggregate value has been steadily declining since 1883, though in weight they show an almost equally uninterrupted growth. 'The cinchona imports from British India are expanding considerably, although even yet they weigh scarcely one-tenth part as heavy as the supplies rom Ceylon. France (Holland not being specially named in the returns) is the only European country from which we receive any cinchona supplies of importance, and even she loes not furnish us with much more than 1 per cent. of our entire imports. We receive from France principally South American barks of the cuprea and Maracaibo varieties, which are brought to Hâvre by the steamers running from that port to Venezucla, Colombia, and Central America. Of South American countries, Ecuador has almost ceased to send us any bark at all, notwithstanding that the Guayaquil, Huanoco, and Loxa cinchonas, which are usually imported from that country, have suffered proportionately less depreciation than most other varieties. But Ecuador in 1886 and 1887 passed through some political squalls of more than usual severity, and this may, partly at least, account for the hiatus in the supply from that quarter, while, moreover, the forests easiest so reach have been quite denuded of bark, and the present prices do not make it profitable to collect it in out-of-the-way places. The imports from Colombia are also dwindling, but most of the bark shipped from the ports in that country, Carthagena, and Maracaibo, is sent to the United States. The forests in the State of Santander, however, where the bark

called, from its copper-like colour, "Cuprea" was discovered about thirty years ago, are now partly exhausted, and the depreciation of this bark, which was worth up to 2s. 6d. per lb. in 1880 and now fetches only about $3\frac{1}{2}d$. per lb., does not encourage the bark-hunters to take any very great pains in procuring fresh supplies. Bolivia is not specially mentioned in the returns which we have compiled. The country is completely cut off from the sea since the Chilian war, and therefore, although no doubt the largest producer of cinchona in America, the Bolivian barks figure, without exception, in the returns from her neighbours, Chili, Colombia, and the Argentine Republic. The Bolivian plantations, which now furnish such excellent yellow bark, are situated in the neighbourhood of Cochabamba, on the eastern slope of the Andes, and the cultivators find it cheaper to ship their goods by the comparatively easy, though long, water-way along the Pilcomayo and Paraná rivers to Buenos Ayres or Montevideo on the River Plate, than to send the bark by a much shorter route across the difficult mountain passes. In a like manner the flat Calisaya bark, procured from the wild trees found in out-of-the-way forests, are mostly despatched by river through Brazil or the Argentine Republic. But if, as is probable, the exports of cinchona from Bolivia should assume abnormal proportions this year in consequence of the abolition of the export duty, we shall probably be able next season to publish statistical information concerning the shipments from that country. sudden doubling of the value of cinchona received from various less important countries is probably owing to the increased shipments from Jamaica and Africa, and to the fact that more Java bark has been sent to London for sale, either direct or vid Holland. As regards our export trade in cinchona, the returns are valuable as showing at a glance that our re-shipments are drifting more and more towards Germany and America. France, which is our best customer for South American cinchonas, takes an average of about 12,000 cwts. per annum, and the amount of her purchases varies very little, but our shipments to Germany (including Holland and Belgium), which were only 40,675 cwts. in 1883, have gradually expanded to 70,692 cwts. in 1884, 67,950 cwts. in 1885, 74,481 cwts. in 1886, and 74,360 cwts. in 1887. We must add to this the increasing quantities bought every year by Germany at the Amsterdam auctions, and the figures, therefore, go a long way to prove that in spite of the low quinine prices there must still be a margin for the manufacturers to work the bark, since it cannot be supposed that the stock of a depreciating article is merely left to accumulate in Germany. Of course, we do not claim for our figures that they absolutely prove this contention, but still, taken in conjunction with other available statistics, they unmistakably point in that direction. Next to Germany the United States are our best customers for cinchona, and to this country also a very large increase in the shipments is shown, the excess of quinine thus shipped in the bark fully counterbalancing the decrease in the imports of prepared quinine into the States. Italy also buys more and more bark every year, the fall in the shipments in 1885, consequent upon the failure of the Milan quiuine works, being the only exception.

HAMBURG AND THE ZOLLVEREIN.

THE absorption of the ancient Hanseatic towns of Hamburg, Bremen, and Bremerhaven into the German Zollverein will become an accomplished fact on October 1 next, and, in anticipation of the impending change, business in the Free City appears to be in a somewhat perturbed condition just now. The Hanseatic League at the period of its greatest power, in the fourteenth and fifteenth centuries, included a large number

the most thriving trading cities then existing, not only in ermany, but in what are at present the States of Holland, elgium, and Russia. The three cities which, a few weeks ence, will be practically extinguished as self-governing mmunities, form the last of this once powerful organition, and they have opposed as long as they could their psorption into the Zollverein. But when, eighteen years o, Germany became a united country, and the trade of e Empire increased in an undreamt-of manner, the fate of e free ports was practically sealed. They were an anomaly, State within a State, a hindrance to the unfettered developent of the Empire behind them, and, above all, a powerful stacle to the consummation of the Protectionist policy hich Prince Bismarck embraced some years ago. The sition of Hamburg especially, the premier port of Germany, came an exceedingly difficult one when for the rest of e country a fiscal policy was adopted involving frequent llisions with other countries, for whom the free towns re part of greater Germany, while, so far as the Zollverein is concerned, Hamburg and its sisters were practically reign countries. It must be said that the pill which the 1 Hanse towns have been forced to swallow has been perally gilded, for from no other point of view than that indirect bribes can we regard such measures as the sublising of the new German steamship lines, and the works w in progress of construction, mostly with Imperial oney, for increasing the commercial facilities which mburg and Bremen have to offer. Everything that the rman Government can accomplish is set in motion to ader Hamburg the principal port on the Continent, or, if ssible, of Europe. At present, although she has immensely ogressed during recent years, the city on the Elbe is still behind London and Liverpool as a trading centre, while Continental ports Antwerp takes precedence over her; t it seems beyond doubt that she has within the last enty years advanced comparatively much faster than any e of her principal rivals. In how far the trade of Hamrg will be affected by her pending inclusion into the Zollein it is difficult to conjecture, but it should be noted tit the German Government have been careful to give atever facilities they could for the preservation of those lustries which had sprung up in the city by virtue of her pition as a free port. So far as the drug trade is conned, the principal interest in the annexation of Hamburg the Zollverein lies in the effect it will exercise upon the nufacture of spirituous medicinal preparations, of which is ustry that city at present virtually holds a monopoly. It his been pointed out before in our columns, and it is now fly confirmed, that the German Government will take care tinterfere as little as possible with this trade, which may s l be carried on in future in certain localities set apart for purpose on the islands on the southern side of the River De. It would be well if our own Customs authorities cold show a similar solicitude in the welfare of British is ustry, and do something to bring to a satisfactory soluthe negotiations for the manufacture of tinctures in bid which have been pending so long, and which, with a lile pliability on their part, might have been arranged nnths ago. Among the preparations which are now being nde to preserve for Hamburg a front place among the g at trading cities of the world are the construction of may new wharves and warehouses in portions of the town wich have been recently pulled down. Electric light will bupplied both at Hamburg and Bremen on a very extensive st e. The plant at the former port will supply 4,200 incandicent lamps, each of sixteen normal candles, and thirty al lights of great strength. Six incandescent lamp d amos will be used, driven by three compound steamengines of 2,000-horse power each. It is stated on good authority that Manchester and Bradford merchants are continually making greater use of the shipping facilities of Hamburg by sending their goods viâ Hull to the German city for transshipment by the new German steamers; and in connection with this it is also observed that during last year the lines of vessels which run between the Elbe and East Asia, West Africa, the West Indies, and the West coast of America had to increase their sailings, while weekly sailings to the La Plata States were begun. The Baltic Sea trade also increased largely in 1887, and the Hamburg-American Packet Company has undertaken the construction of new swift steamers. The number of vessels which arrived at Hamburg during 1887 exceeded 7,000, the tonnage being nearly four million.

One of the most alarmist of all the British British consular reports received last year was that Goods in from Santiago, in Chili, in which the writer, Chili. Vice-Consul Thomas, attempted to prove by elaborate diagrams that our trade with the most flourishing countries on the South American West Coast was fast dwindling to zero. Mr. Thomas's statements were challenged in many quarters at the time, and indirectly contradicted by his own colleague in Valparaiso, the Chilian capital; but they furnished material for a great many articles, despondent and ubilant, in the British and foreign press. Since last summer Mr. Thomas has recovered from his pessimistic attack, and in his report, just to hand, of the foreign trade of Chili in 1886 he "strikes the light guitar" of satisfaction with the past and hopefulness for the coming year. For in 1886 Great Britain has considerably improved her position in Chili. The total imports into Chili rose from \$40,096,629 in 1885 to \$44,170,147 in 1886, and of this increase \$1,317,241, or about one-third, falls to the share of this country. British imports into Chili thus show an increase of 8 49 per cent. on the preceding year, while those of France have fallen no less than 1050 per cent., and of the United States 3.60 per cent. in the same period. German imports, however, have increased still faster than our own, the growth being no less than 1728 per cent.; but it lies principally in rice and tea, whereas the British imports have grown more especially in various branches of manufactured goods. Empty medicine-bottles and candles (composite and sperm) are almost entirely bought from Germany, while in the perfumery branch that country is making rapid progress, and Vice-Consul Thomas thinks that it would be well worth the while of English manufacturers and traders to pay more attention to these important branches. The value of the imports of drugs in Chilian silver dollars of 3s. 2d. sterling are given as follows:—

	1885	1886	Increase
Germany	\$ 150,000 120,000 59,000	204,0 0 149,000 92,000	\$ 54,000 29,000 33,000

While the figures for perfumery are -

	1885	1886		
France United Kingdom Germany United States	\$ 29,600 10,000 4,000 2,600	\$ 27,200 23,500 14,0,0 6,300	Decrease Increase	\$ 2,400 13,500 10.000 3,700

In assorted empty bottles Germany held the market in 1885, when the figures were:—Germany, \$67,500; France, \$18,500; United Kingdom, \$6,300. But in 1886 she lost a great part of her ascendency, the returns for that year being—Germany, \$22,000; United Kingdom, \$15,500; France, \$8,500. In candles again a similar tale is told, for we find that in 1885 Germany exported \$473,000; United Kingdom, \$70,000; France, \$38,000. And in 1886—Germany, \$438,000; France,

\$119,000; United Kingdom, \$82,000. These are but a few instances of the displacement of trade which is taking place in Chili, and which on the whole distinctly confirms the view expressed by us a year ago that British goods continue to make steady progress, though not so much, of late years, as German, but that the rapid, not to say inflated, increase of German trade is taking place at the expense of France rather than of this country.

Chemical Some remarkable experiments are reported by Chemical Mr. W. Spring, an American chemist, which tend to explain in some degree the chemistry by Pressure. of ereation. Mr. Spring's preliminary experiments have been made with the ordinary constituents of the earth's crust, especially with the carbonates and sulphates of barium and calcium. In one series of tests, a mixture of pure dry precipitated barium sulphate and earbonate of soda was subjected to a pressure of 6,000 atmospheres. The amount used in each trial eonsisted of \(\frac{1}{4}\) grm. of barium sulphate and $\frac{3}{4}$ grm. of sodi m carbonate. After a single compression it was found that about 1 per cent. of the barium salt was changed into carbonate. The solid block resulting from the first compression was ground to powder, and again subjected to pressure, with the result that an increase of 4 per cent. of barium carbonate was obtained. When the mixture was left in the press for fourteen days the amount of barium sulphate which changed to carbonate amounted to 11 per eent. When the experiment was reversed by mixing 3 parts of sodium sulphate and 1 part of barium carbonate, the first compression changed 59 per cent. of the barium carbonate into sulphate, and six compressions converted 73 per cent. The continuance of the pressure for a period of fourteen days increased the amount of changed barium salt to 80 per eent. It appeared that heat was unfavourable to these reactions. A block in which 1089 per cent. of the original barium sulphate was changed into carbonate contained only 989 per cent. of the carbonate after an exposure to a temperature of 248° F. for three hours, and repeated trials demonstrated the fact that an elevation of temperature was always followed by a similar decrease.

Professor Tilden is to preside over the Chemical Section at the Bath meeting of The Teaching of Chemistry. the British Association. His address will be concerned with the history of the teaching of chemistry practically, and will review the existing provision for efficient teaching of chemistry in this country. This will be followed by some discussion of the methods actually used or proposed for teaching chemistry either as a constituent part of a liberal education or for technical purposes, together with an endeavour to trace the causes of the unproductiveness of the English schools in respect to advanced studies, and especially in regard to the results of original research. Professor Tilden's address will probably create much interest among his brother-chemists. Otherwise nothing very exciting is likely to happen in this section. It is hoped that there will be a discussion on valency opened by Professor Odling, while an effort will be made to raise a discussion on the report of the Committee on the Teaching of Chemistry in Schools.

Influencing Some of our correspondents advise that, in maceutical gievanees, chemists should join the Pharmaeeutical Society en masse, and, having joined Society. it, first reform that body, and then obtain an Act of Parliament which should establish them and their business on a sure foundation for ever and ever. programme has an air of simplicity which suggests a freshness of faith on the part of the writers in their brethren, in the Society, and in parliamentary innocence, which it seems cruel to disturb. But we cannot imagine that they can have anything like enough co-enthusiasts to bring their ideas within the widest limits of feasibility. In the first place, it has been proved by repeated experience that no ten chemists anywhere can agree on any ten lines of a Bill to redress their grievances, or even as to what are their definite grievances. Secondly, we venture to doubt whether our

friends who so glibly draft the title of a Chemists' Protection Bill have ever tried in the remotest recesses of their minds to definitely plan its details, and they cannot have considered how completely it is opposed to every principle of modern British legislation. Lastly, we may be permitted to question the possibility of the conversion of the Pharmaceutical Society by the absorption of any available number of the at present outsiders. We should as soon expect to see the Ethiopian's skin become white when he got a bit fatter.



Literary Hotes.

An Index of Symptoms, as an Aid to Diagnosis. By Ralph Winnington Leftwich, M.D., late Assistant-Physician to the East London Children's Hospital. Smith, Elder & Co.

This thoroughly practical little volume, bearing internal evidence of the conscientious care with which it has been arranged, will be a welcome contribution to medical literature. Its object is to provide a short cut to a correct diagnosis. The "symptoms" are arranged under the headings "Interrogation" and "Observation," the former referring chiefly to subjective aids, the latter to objective phenomena, neatly classified for ready reference; and these are followed by chapters on "Qualifying Considerations" and "Methods of Diagnosis," wherein will be found many useful hints. We strongly recommend the work to the notice of young practitioners.

Dictionary of Pharmaceutical Synonyms.—A second edition of the "Dictionary" compiled by Mr. W. E. Pritchett (West Cowes, I.W.), and published at 1s. It contains 37 pages of "synonyms," some of them unusual, and therefore useful to have in handy form. But it is far from being complete. For instance, we have "Benne oil" as the synonym of oleum sesame, but no mention of "gingelly oil." The omissions are numerous, and the errors not a few. For example—Araroba powder and Goa powder are not "chrysarobinum"; that is made from the powder. Nor is oil of tar the official "Creasotum," nor "Pulvis Jacobi" "Pulvis antimonialis"; and although we may give vaseline for "paraffinum molle," it does not follow that when vaseline is asked for paraffinum molle may be given for it. It should not be forgotten that synonyms, strictly speaking, are words of the same language which have similar significations. In that respect the English and Latin names of an article are not synonyms. In these respects the dictionary errs.

Introductory Inorganic Analysis. By Ernest H. Cook, D.Se., F.C.S. London: J. & A. Churchill. 1888. 8vo. Pp. 44.

This is a first course of chemical testing limited to qualitative methods. The author's style is good on the whole. He aims to give as few tests as possible, so that the beginner may not be confused, and consequently he generally gives those tests which are reliable and most common. We cannot say, however, that the work is perfect. For example, in testing mercurous nitrate the student is directed to heat a little in a dry test-tube, noting (1) red fumes, (2) salt changes colour, and (3) a grey sublimate of mercury is obtained. In testing mercurie ehloride he is told to repeat this experiment. "Same result will be obtained (i.c. production of Hg)." If an inquisitive student of pharmacy compares this with the Pharmacopæia, he will wonder what the latter means by stating that mercuric chloride "when heated sublimes without decomposing or leaving any residue. Then the author's English is faulty—"the phenomena is," and "one or sometimes two is given," are two of the gems. This is more than we should have expected of a Doctor of Science of the London University.

Trade Report.

otice to Retail Buyers:—It should be remembered that the quotations in this

section are invariably the lowest net cash prices actually paid for large
quantities in bulk. In many cases allowances have to be added before
ordinary prices can be ascertained. Frequently goods must be picked and
sorted to suit the demands of the retail trade, causing much labour and
the accumulation of rejections, not all of which are suitable, even for
manufacturing purposes.

should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., August 16.

THE week has been a very quiet one indeed in the drug and chemical branches, although a decided improvement in e heavy chemical trade is reported from the North, an aprovement which seems all the more healthy because it has sen caused not by reckless speculation, but by a genuine id steady improvement in freights all over the world, but pecially from America, North and South, the Baltic, and e Black Sea. In fine chemicals there is very little pange. Citric and tartaric acids and quinine are nding lower, and in opium there is little business ing, though morphia remains firm. Refined camphor and came have been reduced in price. Glycerine is still The cinchona auctions on Tuesday passed off ardening. eadily, with, perhaps, just a slight advance. In dry-lteries there is little doing, but the cocoa butter is much earer, and gambier, cutch, and shellac are steady. Chamoiles have much declined in value. Spices remain dull, ith the exception of Zanzibar cloves, in which a brisk trade doing. For balsam copaiba higher rates are reported to ve been paid.

ACID (CITRIC).—Very flat at 1s. $6\frac{3}{4}d$. per lb. We hear om Messina that the stock of lemon and bergamet juice in essina and the neighbourhood "has been ascertained to nount to about 800 pipes," and also that the prospects for e coming crop look very favourable at present.

ACID (OXALIC) rather neglected at 3d. per lb., while Saletos is entirely nominal at $5\frac{1}{3}d$. to $5\frac{1}{4}d$. per lb.

ACID (TARTARIC).—Very quiet at 1s. $5\frac{1}{4}d$. to 1s. $5\frac{1}{2}d$. for reign, and 1s. $5\frac{3}{4}d$. nominally for English brands.

AMMONIA SALTS.—Carbonate fairly steady at 4d. per lb., less heavy discount, or, say, 3d. per lb. net cash. Salammoniae ill maintains its price of 34s. for first, and 32s. for second ality, and is in good demand. Sulphate without much quiry. Grey, 24 per cent., Beckton terms, quotes 11l. 12s. 6d.; nll, 11l. 7s. 6d.; and Leith, 11l. 5s. per ton.

ARSENIC very steady at 121. 10s. to 121. 15s. per ton for st white powder.

BALSAM COPAIBA.—The upward movement which has curred in Hamburg and New York has reacted on our arket, where the stock is said to be very small, and during e week business in fine Maranham balsam at 2s. 5d. per lb. is reported. Holders are now said to ask 2s. 6d. per lb. for nilar balsam, but we have not heard of any further business. In Hamburg the article is very firmly held, and 76 test fine Maracaibo are reported to have changed hands last test.

BALSAM PERU.—Hamburg is firm, and speculators there said to be busy buying up whatever parcels they can lay lld of. We hear it reported that a number of adulterated licels are now being offered as quite pure and holding the linzene test. This practice is said to be possible because of the unreliability of that test.

BLEACHING POWDER remains firm at 8l. 5s. per ton on the 10t in London, and 7l. 6s. 3d. to 7l. 7s. 6d. on the Tyne.

BORAX.—English refiners still quote 30%. per ton, but tere are second-hand lots offering as low as 28%. 10%. per the

CAMPHOR.—Crude is not quite so firm, although it is said tat much less will be available from China this season than lt. Prices are merely nominal at 77s. 6d. to 80s. for Japan the spot. English makers have reduced their quotations

for Refined camphor, and now quote bells at 1s. 1d., and tablets at 1s. 1d. to 1s. 4d. per lb.

CHAMOMILES.—The Belgian crop, of which the first supplies are just arriving, will be an exceptionally large one this year, the high values of the proceeding season having caused the growers to devote an increased acreage to the crop, and the weather having been favourable to the development of the flowers, the price has tumbled down within a few days from 95s. to 65s. per cwt. It is thought quite probable that it may go lower still.

COCAINE.—English has been reduced in price, and German is quoted for quantities at 20s. 6d. to 21s. per oz. in bulk.

COCOA BUTTER.—The monthly auctions of Cadbury's cocoa butter took place on August 14, when 300 cases at 2 cwt. cach (A) were offered and disposed of, with brisk competition, at an advance of 2d. to $2\frac{1}{2}d$. per lb. on the last sales, equal to from 15 to 20 per cent. From 1s. $1\frac{3}{4}d$. to 1s. $2\frac{1}{8}d$. per lb. was realised.

CINCHONA.—The total quantity offered for public sale on Tuesday was somewhat smaller than that catalogued for the preceding auctions (3,779 against 4,179 packages), but on Tuesday more Eastern barks, forming on the whole a very good assortment, were shown, the catalogues consisting of 1,907 packages Ceylon, including a large quantity of Hybrid bark, but little Officinalis. For Ceylon bark there was a fair, though by no means excessive, competition, and three-fourths of the supply offered sold at fully last auction's rates, and in some cases at about 5 per cent. advance. Of Indian barks, 442 packages were offered, mostly from Southern India (Nilgiri Hills), but the demand was rather slack. cinchona was in better supply than usual, 190 packages Ledgeriana, including no particularly fine lots, being offered and sold. South American cinchonas, finally, were represented by 1,240 packages, mostly Cuprea (506 packages), which is at present a veritable drug in the market, and of which parcels imported several years ago are being constantly offered for sale. Of Bolivian Calisaya bark there were 427 packages, and the rest was made up of 189 packages Pitayo and 118 soft Colombia. A few lots were disposed of. The unit is generally estimated at 2d. to $2\frac{1}{8}d$., or very slightly in excess of the preceding auctions, and the principal buyers were the agents for the Mannheim and other German factories. The prices realised were as follows: — CEYLON CINCHONA. — Succirubra — Dust, 3d.; ordinary and branch to fair stem chips, $1\frac{1}{2}d$. to 4d.; good strong chips, $4\frac{1}{2}d$. to $5\frac{1}{2}d$.; spoke shavings, common to fine, $2\frac{1}{2}d$. to $5\frac{1}{2}d$.; root, including "renewed" lots, 2d. to 5d.; quill, fair to good stout silvery druggists, 6d. to 9d.; renewed, medium to fine, mostly shavings, $4\frac{1}{2}d$. to 8d. Officinalis—Chips, small branchy to fine bold stout stem, 3d. to $6\frac{1}{2}d$.; root, $4\frac{1}{2}d$. to $8\frac{1}{2}d$. Hybrid, &c.—Chips, weak to fine Ledger, $2\frac{1}{2}d$. to 7d.; root, 4d. to $4\frac{1}{2}d$.; quill, bright, 9d. A few packages very fine bright natural Ledger spoke shavings, 1s. 5d. per lb. Indian Cinchona.—Succirubra—Siftings, 18. 5d. per 1b. INDIAN CINCHONA.—Succirubra—Sittings, 1d. to 2d.; ordinary to fine stem chips, $2\frac{1}{2}d$. to $6\frac{1}{2}d$. Officinalis—Branch, 1d.; shavings, $4\frac{1}{2}d$. to $5\frac{1}{2}d$.; root, including renewed, 6d. to 11d. Hybrid—Branch, $2\frac{1}{2}d$. to 5d.; chips, 4d. to $5\frac{1}{2}d$.; root, $10\frac{1}{2}d$.; thin weak quill, $9\frac{1}{2}d$. per 1b. Java Cinchona.—Ledgeriana—Chips, young to fair quilly, 3d. to 6d.; good stout strong, 7d. to 9d.; root, 9d. to 11d.; branch and siftings, 2d. to 3d. per 1b. South American Cinchona.—Calisaya from the Bolivian plantations in quills fairly good to strong and of fine appearplantations, in quills, fairly good to strong and of fine appearance, 8d. to 10d.; old Cuprea, $3\frac{1}{2}d$.; and common Pitajo at $\frac{1}{2}d$. to 1d. per lb. The imports of cinchona into Germany during the first half-year of 1888 were 1,843,100 kilos., against 2,359,600 kilos. during the first half-year of 1887. The re-exports of cinchona from Germany were respectively 12,200 and 10,800 kilos. The exports of cinchona bark from private plantations in Java for the first four months of the year has been :-

	1886	1887	1888
To Holland Kilos.	162,544 30,684	153,933 17,636	382,551 44,743
Kilos.	193,228	171,569	427,294

The following figures represent the cinchona trade of the United Kingdom during the last five years:—

Exported	to	1883	1884	1885	1833	1887
Germany Holland Belgium Frauce. Italy United States. Other countries	cwt. value £ cwt.	10,188 82,686 20,848 159,884 9,649 82,053 10,580 90,660 7,719 52,568 7,798 70,7-6 2,607 17,227	12,836 66,904 52,862 358,155 4,994 33,980 12,659 84,211 8 936 55,647 10,163 76,144 438 4,295	15,420 75,134 42,307 197,371 10,223 46,087 12,803 83,748 1 583 11,898 29,720 203,342 384 3,931	31,452 154,632 40,439 188,415 2,590 11,133 13,830 65,024 9,614 31,446 19,669 93,768 397 3,376	36,522 129,998 34,424 126,478 3,414 15,270 10,944 48,181 12,125 48,348 33,494 110,441 \$\epsilon 556 2,920
Total exports " Imported fr	cwt. value £	69.379 555,799	102.9 ¹ 8 679,336	112,440 621,511	117,991 547,794	131.3 ⁻ 9 481,636
France British India (Mad Ceylon " U.S. Colombia Ecuador Peru Chili Other countries	cwt.	11,973 192,510 3,216 47,738 47,860 29,195 9,399 120,818 2,508 40,772 2 80,999 44,713 9,9-9 110,409	5,384 63,634 2,494 26,697 78 055 579,014 6,456 65 33 3 519 55 861 1,950 28,301 2,013 23,849 5,920 57,794	1,881 22,959 6,588 55,245 10,5646 2,192 2,120 32,729 28,253 9628 5,463 41,742	3,995 40,525 8,151 57,615 114,932 564,802 4,975 53,982 621 9,613 1,537 12,848 1,891 12,966 9,265 49,002	1,863 15,124 10,783 55,742 105,282 431,37 626 5,531 3,44 4,529 2,660 33,835 3,0,401 18,506 94,641
Total imports	cwt.	116.921 1,423,516	105,791 905,499	128,104 874,332	145,367 801,353	143,177 661,182

COPPER (SULPHATE) quiet but steady at 20% for first mint.

CREAM OF TARTAR is a trifle better, first white at 115s. to 116s., and seconds at 113s. per cwt. Although the scarcity is not now very pressing, yet there is by no means an abundance of fine firsts.

CUTCH.—The latest sales reported include the following brands, all London terms: Star B, 31s.; MM, 30s. 6d.; Cock, 29s.; Eagle, 28s.; and SKG, 27s. per cwt.

Galls.—Business is reported to have taken place in fair quality *China* galls at 58s. per cwt. London terms, an advance of 1s. to 1s. 6d. per cwt.

GAMBIER.—Block has been arriving more plentifully, but there is still a pretty large business doing at the following prices: Spot, 26s. to 26s. 6d.; near at hand, 25s. to 25s. 3d.; August-September shipment, 23s. $4\frac{1}{2}d$.; and July, 24s. 9d. to 25s. per cwt. Cubes, good free, have sold at 34s. 6d.

GLYCERINE has now advanced to 65*l*, per ton for double-distilled, s.g. 1.260; and some agents say that they contemplate a rise of another 20*s*, per ton this week.

Gum Animi.—There was a rather small assortment catalogued for to-day, and, although little animation was shown, steady prices were realised, especially for Madagasear gum, of which 22 packages sold at 9l. 2s. 6d. to 8l. 12s. 6d. for medium to good palc amber glassy sorts, 7l. 5s. to 7l. 2s. 6d. for fair to small pale sorts, 6l. 10s. to 5l. 10s. for small amber to ordinary red sorts, and 62s. 6d. down to 32s. 6d. for pickings. Demerara animi sold at 79s. to 84s. for unwashed red, and 35s. for common coated. Good ambery Bombay sorts brought 7l. 17s. 6d. to 8l.; and Zanzibar moved off at 12l. 5s. for mixed amber sorts, and 36s. to 34s. per cwt. for pickings.

GUM ARABIC.—Previous to the weekly auctions a better inquiry was reported for *Ghatty* gum, and nearly 300 cases were reported as having changed hands at full rates. This feeling was fully maintained at to-day's auctions, when,

although the general demand for arabics (which were plentifully offering) was slack, a good competition prevailed for Ghatty of medium quality, which sold at fully 2s. per cwt. advance, very fine pale at 120s. to 125s., fine bright at 65s. 6d. to 70s., fair partly dark to good palish at 45s. to 57s. 6d., pickings at 15s. to 33s., and siftings at 15s. to 18s. per cwt. Australian gum was in good supply, 134 packages being offered. These mostly sold at a fresh decline, only 66s being realised for very good bold pale red frosted gum, while good to fair darkish red brought 49s to 45s, and common dark and woody, 42s. to 40s. 6d. per cwt. Cape gum realised 30s for common brown block, and Brown Barbary 25s. to 59s. for dark woody to fair. East Indian Amrad sold as follows: - Fine bold amber to pale soft frosted, 6l. to 6l. 17s. 6d.; common red to fair amber drop, 38s. to 53s.; good to fine soft pale siftings, 43s. 6d. to 61s.; and dark red ditto, 34s. to 36s. per cwt. Gehzirah gum is out of stock at present, and no fresh supplies are looked for until towards the close of the year.

GUM KOWRIE.—At to-day's auctions 1,637 cases were offered, but the demand was a very small one, and only a few lots sold at unchanged rates, fair picked amber at 68s, to 70s; fairly good bold pale, three quarters-scraped sorts, 50s, rough to fair, hard, partly-scraped sorts, 40s, to 46s; dark to fair chips, 29s, to 40s; common pickings, 29s, 6d, to 30s; fair dust, 20s, per cwt.

GUM OLIBANUM quiet. Lower prices were accepted for the common varieties. Fair medium tears sold at 32s. 6d.; common woody to good pickings at 9s. 6d. to 16s.; ordinary to fair siftings, 10s. to 12s. per cwt.

GUM SANDARAC.—At to day's auctions 44 packages were sold without reserve; common specky to fair, but very dusty, at 45s. to 56s. per cwt.

HERBS AND FLOWERS.—Our reports are to the effect that, while most of the German vegetable drugs will yield but an indifferent crop as regards quality, German chamomiles have been exceptionally favoured by the changeable temperature. Flor. eyani, sambuei, tiliæ, and juglandis, herbæ, belladonnæ and digitalis are all said to be of good quality, but flor. lamis and rosar. rubr. are scarce, and the price of the former has again advanced. Herba veronieæ is also arriving sparingly. In France herba centaurii has been scarce, and Algeria, which furnishes the finest quality, has yielded very little this year. Red roses, violets, and eoltsfoot are all dear this year. Marshmallow has not yet arrived on the market. In Belgium Valerian has yielded a crop quite as good as last year.

INSECT FLOWERS.—The latest Trieste quotations are, for open flowers, 198s.; half open, 218s.; and closed flowers, 228s. per cwt. c.i.f. London. Powder is quoted at 1s. $7\frac{1}{2}d$. per lb., an advance of $1\frac{1}{2}d$. per lb. since our last report. Holders in Dalmatia are said to be very firmly disposed, and do not care to quote any prices at all.

IODINE.—Crude remains steady at 9d. per oz.; Resublimed at 13s. 6d. per lb., and Iodide of Potassium at 11s. per lb.

LEAD (ACETATE) quiet, with a little business at 26s. 6d. per cwt. for white foreign, and 28s. for English. Brown is worth 20s. 6d. per cwt.

MAGNESIA quiet at 40s. to 45s. per cwt. for *Carbonate*, and 1s. 2d. to 1s. 4d. per lb. for calcined.

MERCURIALS remain unchanged at 3s. 1d. for Calonel; 3s. 3d. for White; and 3s. 4d. for Red Precipitate; 1s. 11d. for Blue pill; 2s. 5d. for Corrosive sublimate; and 2s. 5d. to 2s. 6d. for (English) Vermilion.

MORPHIA.—The manufacturers still keep their price for powder at 4s. per oz., and are firm at that figure.

OIL (ALMOND).—English expressed oil is quoted at 1s. 3d.

OILS (ESSENTIAL).—Star anise very quiet. We hear that offers have been wired out to China on the basis of 5s. 10d. per lb. c.i.f. for direct shipment to the Continent, but that holders in China ask 6s. c.i.f.; spot is quoted 6s. 4d. to 6s. 5d. per lb.; oil of almonds is held at 25s. per lb. Cassia very dull at 2s. 10d. to 2s. 11d. per lb. Clove oil dearer with a tendency to further advance; for English drawn 4s. 3d. per lb. is quoted. Citronella unchanged at the last quotations. Lemon grass neglected at $1\frac{3}{4}d$. to $1\frac{2}{8}d$. per oz. The

ench crop of Lavender will be a very good one indeed. the regard to the Mitcham essential oil crop, a ll-informed correspondent writes:—The seasons of 37 and 1888 will doubtless be for a long time rembered by the growers in the Mitcham district as a iosity by reason of their striking contrast, the former for many weeks of tropical sun and want of rain, and 1888 its deluging rains and want of sun during the greater tion of the summer months. In consequence of the ather the crop outlook three or four weeks ago was about serious as it well could be from the grower's point; but bright warm sun of the last two weeks has wrought a ourable change, and now there is some reason to look for good yield. Peppermint, notwithstanding its having fered in parts from blight or "snuff," as it is locally termed, I be a very good crop, the leaf being large and the plant y fine and heavy, so much so that it would be more easily wed than reaped, as is usual; the cutting of this plant has ady commenced. Lavender will also be an abundant crop. flower, thin and poor as it was three weeks ago, has wn under the warm sun at a tremendous pace, and is now siderably finer and larger than it was this time last year. momile will also be a larger crop this season than last as re is a slightly larger area under cultivation, but it will er be a very extensively cultivated plant owing to the ner difficult sale of the oil, for which the flower is almost ays used in the Mitcham district. American peppermint rather weaker and dull at 12s. per lb. for HGH nominally.

PIUM.—On the spot the trade is confined within retail its, some business in Karahissar, 1886 crop, at 9s. per lb., 1 a few inquiries for Soft shipping opium being all that is exted. The Smyrna market is somewhat easier. On 1, 1 a few inquiries for soft new opium at Smyrna were 1,350 res, against 187 and 1,036 on the corresponding dates of 1,7 and 1886. At Constantinople 450 cases had arrived, 1,1 and 1,1 and 1,0 and 1,0 and 1,0 arrivals at Constantiale and Smyrna, therefore, were 1,300 cases, equal to the cole of last year's crop. The bulling operations, in view of 1,0 impending purchases by the Dutch Government, still content of the semanceuvres must also be attributed some errts which have again been circulated that the crop will after all reach over 7,000 cases, whereas the general 1,1 in the minimum will be 10,000 cases.

HOSPHORUS sells at 2s. for wedges, and 2s. 1d. for sticks; d e amorphous is held at 3s. 1d. per lb.

oppy Flowers.—This season's crop in Lincolnshire will late one, and below the average in quantity. The late ey and continuous rains have broken down a great nume of plants, and many more heads are spoiled by the high ris. Last year's crop was cleared out three months ago, res growing higher as the season advanced. It is hardly de hoped that the exceptional quality of last year's popis will be again realised, even with the most favourable wher from this time forward. Growers are informed of the present scarcity, and higher prices are spoken of. The ian poppy flowers are now arriving, and are being sold on the basis of 13f. per 1,000.

PTASH SALTS.—Bichromate neglected at $4\frac{1}{2}d$. per lb. Wrate has declined to 5d. to $5\frac{1}{8}d$., and seems weak vat that figure, although there has been some more busied done. Prussiate may be bought at very low prices, we English at $6\frac{3}{4}d$. and foreign at $6\frac{1}{2}d$. to $6\frac{1}{8}d$. per lb.; red sell held at 1s. 7d. per lb.

TASSIUM BROMIDE.—No change has been made in the t_1 , which still ranges at t_2 . t_3 t_4 t_5 t_6 t_7 t_8 t_8

IICKSILVER.—On Friday last the principal importers as ed 71.15s. as their price, but secondhand holders still of the still of part with any under 71.12s., which is the current uation. The stock in London at the commencement his month is computed at 61,000 bottles, against 60,000 of es on August 1, 1887, when the price was from 8 to 9 event. lower.

(IININE.—So far as *German* quinine is concerned the intion remains virtually what it was last week. The tenan agents are sellers of bulk at 1s. 5d., but there are no urs, and we hear of no transactions of any importance.

Meanwhile *Howard's* brand was reduced 2d. per oz. in price by the makers before the bark auctions on Tuesday. The following are the present official quotations:—Howard's—vials, 1s. 10d.; bulk, 1s. 8d. Pelletier's—vials, 1s. 10d.; bulk, 1s. 8d. German—bulk, 1s. 5d. per oz. Second-hand lots might be had at 1s. $4\frac{1}{2}d$. or even 1s. 4d. per oz., but there is no inquiry.

RHUBARB.—We note further arrivals of 74 cases per s.s. *Titan* and *Nepaul* from Shanghai.

SENEGA ROOT keeps firm at 1s. 9d. per lb. for fine bright on the spot.

SHELLAC.—Nothing was offered for sale by auction this week, and privately business is confined to a few transactions in *Second orange* lac up to 44s. for TN standard on the spot, and 42s. c.i.f. terms for TN arrived. In India sellers still maintain that shellac is scarce, and too high in price to admit of being worked at the present shellac prices. The article closes with a better feeling, and fairly large spot sales of *Garnet* lac, AC, at 35s. to 35s. 6d. for good to fine free.

SODA SALTS.—Ash quiet, Tyne price 1d. per degree less 10 per cent. London, landed, 1_8^1d . per degree, with some little business. Biearbinate without alteration at 5l. 5s. ex warehouse, with a very moderate demand. Caustic is held at 6l. 15s. to 7l. for 60 to 70 per cent. white on the spot; cream fairly steady at 6l. 15s. In Crystals business here is rather quiet at 46s. 6d. per ton ex ship. The Tyne quotation is now 40s. 6d. to 40s. 9d. per ton, having slightly receded since last week. Nitrate firm at 9s. to 9s. 6d. on the spot, according to quality.

SPICES .- The market, one article only excepted, is very quiet, although until this week no auctions had been held since August 1. For Arrowroot there is very little inquiry, and the only sales made are about 200 barrels fair to good St. Vincent at $2\frac{1}{4}d$. to 3d. per lb. Some fine St. Vincent arrowroot was shown, but bought in at $5\frac{1}{2}d$. per lb. For good to fine Bermuda 1s. 4d. to 1s. $6\frac{1}{2}d$. per lb. was paid. Capsicums sold at 22s. to 24s. 6d. per cwt. for medium to good small bright stalkless selected Madras. Cassia lignea quite neglected, with a continually increasing stock. A very good inquiry has prevailed for Zanzibar *Cloves*, and the prices realised at the auctions fully maintained the advance which has been privately obtained. Fair to good Zanzibar realised $6\frac{1}{3}d$. to $6\frac{5}{8}d$.; good Amboina, $9\frac{3}{4}d$. per lb. Zanzibar Clove stems are selling at $1\frac{1}{3}d$, to $1\frac{1}{6}d$, per ib. Ginger is offering very plentifully, especially the common grades, and for Cochin only lower rates are, with some difficulty, obtainable. Common brown rough sold, in auction, at 18s.; fair, partly cut, at 24s. to 25s.; fair to good small cut, 25s. 6d. to 30s. per cwt. About 180 barrels Jamaica ginger also found buyers at unaltered prices: 51s, to 70s, for common small to good medium washed, and 75s, to 100s, for fair to fine bold ditto. Mace steady but quiet, with small sales of ordinary to fine bright West India at 2s. 5d. to 3s. per lb. Nutnegs unchanged, the principal business at the auctions being in West India, which sold at the following rates: 68's to 77's, 3s. to 2s. 5d.; 94's to 124's, 2s. 3d. to 1s. 11d.; 164's at 1s. 6d. per lb. At the end of last and the commencement of the present week private business was reported in Singapore black pepper at reduced rates, viz.: $7\frac{1}{2}d$. spot, $7\frac{7}{16}d$. for near to $7\frac{2}{3}d$. at hand, and $7\frac{1}{2}d$. for August–September. At the auctions the only parcel sold was 200 bags fair Atcheen-Penang (748 to 749 per cent. dust) at $6\frac{1}{3}d$. per lb. White Pepper quiet, with sales of Singapore at $11\frac{1}{3}d$. per lb. on the spot. Pimento full np, and held for high rates. Fair clean to good Jamaica has sold at $2\frac{1}{4}d$. to $2\frac{3}{8}d$. per 1b.

SULPHUR has been advanced in price from 5 to 10 per cent., now quoted 9s. 6d. to 10s. for English flowers.

TEA.—China market. A large amount of Congou has been thrown on the market this week, with a considerable quantity offered in public auction on Monday, Tuesday, and Thursday, and at last a fair assortment of Monings is to be had under 1s, some very useful teas selling from 8d, to 1s. Comparatively few, however, are quite free from tar, though some good leaf Ningchows are now coming in from the second crop. Merchants, however, are wanting firm prices for these sorts, and there has not been much business done. Common new Monings have sold as low as $4\frac{1}{2}d$, to $4\frac{3}{4}d$, having dropped from 6d, within a few weeks. On the other hand there are but few

really serviceable Kaisows to be had between 8d. and 11d., Soomoos being such a very poor crop. First crop Panyongs and Chingwos are showing very fair value, from $10\frac{1}{4}d$. to 1s, $3\frac{1}{2}-\frac{3}{4}d$. Also fine Pecco Congous selling about the latter prices, the finer grades being hence below opening rates. These finer sorts are, however, not likely to be cheaper. Capers are showing very fair value for olive sorts, from 6d. to 1s., but black glazed sorts are at the moment scarcer and wanted. New Pingsuey gunpowders offered in sale on Wednesday sold slowly. Assams keep very for the lower grades, but Pekoes from 9d. to 1s. 1d. are coming forward in large quantities, and some very useful teas may now be bought. Pekoe Souchongs and Souchongs from $7\frac{1}{2}d$. to 9d. are wanted, and firm. Fine old borden Pekoes are selling at heavy reductions, and show very fair value from 1s. to 1s. 3d. Ceylons are very firm, the chief demand running on lower sorts, and there is very little broken Ceylon to be had under 8d.; while very poor Souchongs, that would have realised 8d. to $8\frac{1}{4}d$. a few weeks ago, are readily taken at 9d. There are, however, large quantities of Ceylon to come, and while we do not anticipate any heavy fall, we should not advise buying these grades except from hand to mouth.

THE AMERICAN MARKETS.

NEW YORK, August 4.

THE past week has been a little more animated than for some time back, in consequence of quite a stir having taken place in the opium market, the article suddenly advancing some 10c. to 15c. per lb. Everything else is very quiet, and a fair active jobbing demand continues right along. The Mills Tariff Bill has passed the House, and now awaits the action of the Senate; there it may hang up for several months and be finally rejected, as the majority are not supposed to favour any reduction in import duties, they being mainly Republican, while the reduction of the tariff is entirely a Democratic measure, and originated with the House of Representatives, where the majority is of the latter class of politics, and any change in the tariff appears to be about as remote as ever.

ACID (CITRIC) remains about the same for either American or foreign, viz., 50c., less duty, 10c. per lb. (1s. 8d.), with a fair and steady demand for consumption.

BALSAMS.— Copaiba remains steady under a fair jobbing demand; there has been more doing in large lots recently, and some 70 cases have come in lately of Central American, which brought about 45c. (1s. $10\frac{1}{2}d$.)., but for jobbing the price is 47c. to 50c. (1s. $11\frac{1}{2}d$. to 2s. 1d.) for Central American; 52c. to 54c. (2s. 2d. to 2s. 3d.) for Pará and Maranham, and 60c. (2s. 6d.) for Angostura. Canada Fir is quoted \$2.60 for new crop (10s. 5d.), and Oregon \$1.10 (4s. 7d.). Peru has declined a little, and is selling at \$1.02\frac{1}{2}\$ (4s. $3\frac{1}{4}d$.). Tolu is unchanged, 28c. to 30c. (1s. 2d. to 1s. 3d.), as to quantity and quality.

BROMIDE OF POTASSIUM still continues unchanged, 33c. in lots of 1,000 lbs. the manufacturer's best price.

Cubebs are selling freely in a jobbing way, and the prices are firmly maintained, \$1.75 (7s. $3\frac{1}{2}d$.) for prime sifted and stemless, and \$1.50 (6s. 3d.) for natural stemmy and unsifted. Pretty much all the cubebs coming to this market now are small shrivelled berries, none of the bold dark large ones of former years, when the price was about 10c. per lb. (5d.).

LYCOPODIUM continues very steady at 38c. to 39c. (1s. 7d. to 1s. $7\frac{1}{2}d$.), and while efforts have been made to raise the price to 40c. (1s. 8d.), they have failed, as the demand is not large enough as yet to sustain any very pronounced advance, the stocks being large here, and one or two eager sellers always keep the price down. The demand for this article is likely to be very large during the coming political campaign, when very much of it will no doubt be consumed, and prices in consequence advance very materially; but it is a little early yet, and holders get impatient, and with their desire to sell keep the price in the buyer's favour, as it is now said to be under cost of importation.

OILS (ESSENTIAL).—Anise is somewhat firmer, and held at $$1.62\frac{1}{2}$$ to \$1.65 (6s. $9\frac{1}{2}d$. to 6s. $10\frac{1}{2}d$.), with an advancing

tendency. Peppermint maintains its recent advance, and is very firm at \$3\$ to \$3.25 (12s. 6d. to 13s. 6d.) for HGH in bottles, and \$2 35 (9s. 9d.) for prime New York State, and \$2.15 (9s.) for prime Western, with every prospect of the higher prices prevailing all through the year. Sassafras is scarce at the moment, and 48c. to 50c. (2s. to 2s. 1d.) is asked; stocks are light and holders are firm. Pennyroyal is also scarce, and held at \$1\$ per 1b. Wintergreen is firmer and higher; \$190 (7s. 11d.) is the asking price, but this might be shaded some little, say 5c. per 1b., or \$1.85.

OPIUM.—There has been a considerable improvement in the market for this article within the past week. The upward movement has been attended by considerable buying, and sales are reported of some 75 cases, all pretty much, however, in small lots, to jobbers and consumers, at from \$2.75 to \$2.80, or \$1.75 to \$1.80, less duty 7s. $3\frac{1}{2}d$. to 7s. 6d., at which figures it is held very firm, with some holders even asking as high as \$2.85; these holders must have considerable confidence in the maintenance of the advance.

QUICKSILVER is easier here in sympathy with the late decline in the London market, and it is obtainable at 54c., duty 10 per cent. (2s.).

QUININE continues steady and unchanged at recent prices, 34c. to 35c. as to brand (1s. 5d. to 1s. $5\frac{1}{2}d$.).

ROOTS.—Ipecacuanha has advanced here in sympathy with the London market, and holders here have put up their prices to \$1.70 to \$1.75 (7s. 1d. to 7s. $3\frac{1}{2}d$.), and the tendency is still higher. Senega has been in good demand, and Western is held at 32c. to 34c. (1s. 4d. to 1s. 5d.), and Southern, which is scarce, 38c. to 40c. (1s. 7d. to 1s. 8d.). Golden Seal is very low and only worth 24c. to 26c. (1s. to 1s. 1d.)

CHEMICALS IN THE NORTH OF ENGLAND.

THE tone of the chemical market here generally is decidedly better, the home trade has improved, and foreign orders are coming in far more freely. We look for a decided advance in many articles before long. Foreign inquiries are partly caused by the greater firmness in freights, this firmness having its source in the long-continued wet weather, and consequent advance in wheat creating a demand for tonnage, and a probable rise in freights.

ACIDS — Tartaric has only been moving off slowly, and is dull here at 1s. $6\frac{3}{4}d$, per lb., while Citric is weaker, holders offering at 1s. 7d. Oxalic is firm at 3d. to $3\frac{1}{4}d$., and Boracic is held for higher prices, 26s. being required on spot, very little offering for forward delivery.

ALUM.—There has been a decided improvement in demand, and inquiries and shipments are increasing in weight and quantity. The market is very steady, at 4l. 15s. to 4l. 17s. 6l. per ton, according to packages. In Sulphate of alumina there has also been more movement at 5l. to 5l. 10s. per ton, whilst Aluminoferric cake has been active at 3l. 2s. 6d. per ton.

AMMONIA SALTS.—Sal ammoniae has been in request for export, and is being freely shipped at 34s. for first, and at 32s. per cwt. for second quality. Muriate also meets with better inquiry, and present values are 23l. to 31l. per ton, according to crystals and colour. Carbonate is without change, but is steady at 3d. per lb. Sulphate is neglected and easier, the nearest closing values being for good grey, spot and Hull, at 11l. 7s. 6d. to 11l. 10s. per ton.

BORAX is steady and, with the advance in acid, is somewhat firmer, the closing prices being 30s. for crystals and 31s. for powdered. Californian is still very scarce, no arrivals having taken place, and the nearest value to-day is 30l. f.o.b.

BLEACHING POWDER has been in good demand, and continues to harden. The supply for prompt is limited, and stocks are being rapidly cleared off. The closing quotations are:—Soft on rails at 71.6s.3d., and hard f.o.b. at 71.10s. per ton.

SALTPETRE meets with a somewhat more active inquiry, and is steadily held at 21s. 6d, barrels, and 22s. 6d., kegs. Montreal pots have declined to 21s. 9d, but several sales have been made for forward delivery under this.

BOARD OF TRADE RETURNS.

<u></u>			
Imports	July, 1886	July, 1887	July, 1888
ugs, unenumerated value £	46,226	54,817	62,635
emical manufactures and products, unenumerated ,	125,300	139,869	100,918
Themicals and dyestuffs, uuen. ,, Dils, not enumerated ,,	163,410 109,988	157,294 89,632	185,526 76,525
Alkali cwt.	6,484	5,363	6 213
Brimstone	5,169 5 9 ,204	4,998 48,642	6,242 60.890
,, value £ Nitrate of soda cwt.	15,386 137,718	11,046 78,480	13,851 112,020
,, value £	60.352	32,500 12,349 11,136 356,525 30,801	49,049
value £	12,963 11,794	11,136	18,809 16,217
value £	334,317 30,420		22,125 2,196
Cinchona bark cwt. value £	12,071 64,374	10,492 39,763	14,072 41,747
Gum Arabic cwt.	2,783 10,826	4,112 19,269	6,853
Lac, seed, shell, stick, and dye cwt.	5,112	10,162	21,588 8,157
value £	14,359 60,622	26,551 48,226	19,391 83,799
Ginger value £	1,930 4,168	1,470 4,564	1,959 7,706 11,970
,, value £	7,790	9,679	11,970
malua C	1,411,165 39,281	2,092,525 72,032	1,916,865 61,498
Bark (for tanuers' or dyers' use) cwt.	48,074 22,040	41,786 20,032	47,598 25,444
Aniline	22,809 14,872	25, と 95 18,786	22,115 20,802
Other coal-tar dyes "	_	1,103	862
value f	678 4,324	393 2,606	152 917
Cutch and gambier tons	1,368 34,174	1,075 25,787	1,496 35,600
Indigo ewt.	2,472 3 2,542	2,166 37,072	1,975 31,687
Madder, madder root, &c cwt.	951	1,845	2,101
Cocoa-nut oil , value £	1,365 4,307	2,521 730	2,(82 2,713
,, ,, value £	6, 3 78 1,511	1,118 1,631	2,982 586
Poly oil value £	55,885	57.088	22,301
" value £	110,685 114,507 6,295,797	82,404 77,979 10,429,298	75,397 72,778 8,702,755
malus C	6,295,797 172,583	10,429,298 260,681	8,702,755 204,488
Various seed oils tons	172,583 1,851 40,810	747	714
Turpentine cwt.	61,442	18,179 65,819	17,854 71,248
EXPORTS	78,208	83,422	94,481
itish and Irish produce—			
Drugs and chemical pre- parations and medicines value £	73,887	64,982	65,716
Sundry chemicals ,,	271,122	298,561	322,275
Alkali cwt.	107,465 446,899	112,114 460,001	115,712 458,590
Bleaching materials cwt.	134,176 105,309	157,070	119,578 116,6 3 9
yalue £	32,837 4,22 3	102,278 38,776 4,546	45 ,3 66 5,353
Pickles, vinegar, sauces, con-	92,952	98,788	108,387
diments and confectionery ,,	93,371	93,150	
Soap cwt.	40,416 40,073	50.095 46,687	37,493 35,775
reign and Colonial merchandise— Chemicals, unenumerated	18,443		14,638
Dinchona bark ewt.	7,541	17,487 7,290	12,958
Oochineal cwt.	31 246 780	33,246 533	33,896 686
Cutch and gambier value £	5,309 896	3,447 901	3, 528 407
Jum Arabic value £	23,830 4,620	23,398 3,552	11,711 4,912
Indigo value £	15,176	14,624	19,958
" value £	2,483 50,890	2,863 63,070	1,82 3 39,062
yalue £	5,419 1 5,136	6,071 1 5,335	7,849 20,277
locoa-nut oil cwt.	5,318 7,185	8 457 12,060	9,921 11,793
olive oil tuns	232	309	324
Palm oil value £	9,938 76,180	12 142 27,703 27,116	13,210 59,836
Petroleum oil value £	78,171 28,040	27,116 25,430	57,388 35,8 _± 7
	1,352	25,430 1,351 618,294	1,575
valne £	327 697		
Quicksilver lbs.	1,352 327,687 28,658	54,837	243,485 24,295
Quicksilver lbs value £ Dinnamon	28,658 86,795	108,000 3,971	80,888
Quicksilver lbs. y value £ Dinnamon lbs.	28,658	54,837	24,295 80,888 2,816 1,451,736 47,477

TRADE-MARKS APPLIED FOR.

THE Trade Marks Journal publishes the following notice:—"Any person who has good grounds for objection to the registration of any of the following marks may, within two mouths of the date of this journal, give notice in duplicate at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1883, of opposition to such registration." The address of the Patent Office is Southampton Buildings, London, W.O.

From the "Trade Marks Journal," August 15.

- "Branson's Spade Milk Coffee, Sweetened," in fancy design; for milk coffee. By Branson & Co., Chase Works, The Chase, Clapham, London, S.W. 69,929.
- "STRAWSON & Co., NEWBURY, QUADRÂ ROTUNDUM," on diagram of square in circle, with signature; for chemical substances for agricultural and other purposes. By T. F. Strawson (trading as Strawson & Co.), Newbury, Berkshire. 70,157.
- "Wedgwood," and drawing of teapot; for an ointment. By M. A. Wedgwood, The Bell, Bovingdon, Hemel Hempstead, Herts. 72,269.
- "FRITZ'S SALT REGAL," and other wording, on fancy label; for a medicinal preparation. By R. C. Scott (trading as Fritz & Co.), 36 Fleet Street, Liverpool. 73,409.
- "SAL REAL"; for a medicinal preparation. By R. C. Scott, as above. 73,764.
- "LOEFLUND'S KINDERMILCH INFANTS' FOOD"; for the same. By Loeflund & Co, 148½ Fenchurch Street, London, E.C. 74,010.
- "SWITCHBACK," and other wording; for an aërated drink. By D. Booth, Town Hall Tavern, Town Hall Square, Bolton. 74,481.
- "ASHLEY'S MONK BRAND SOAP," and other wording, and picture of a monk with face reflected on polished pan; for a cleansing soap. By E. A. Ashley, 7 Woodbine Road, Gosforth, Newcastle-on-Tyne (trading as E. Ashley & Co., Newcastle-on-Tyne and London). 74,791.
- "British Hygienic Society's Almond Popoline Soap"; for a perfumed soap. By M. Leon (trading also as British Hygienic Society), Warwick House, Christchurch Road, Brondesbury, N.W. 75,084.
- "Bové"; for a food. By J. L. Johnston, Oriel House, 30 Farringdon Street, London, E.C. 75,218.
- Fancy drawing of a stork, with letters "R. E. B. & Co."; for carbolic fluid. By R. E. Bickerdike & Co., 1 East India Avenue, Leadenhall Street, London, E.C. 75,253.
- "FOURPENNY BRAND SWISS MILK," and drawing of four pennies and other wording on label; for Swiss condensed milk. By H. F. Schnitzer, trading as Schnitzer & Co., 7 Upper Thames Street, London. 75,259.
- "Julian," with two feathers in double circle; for mineral water. By T. Julian, High Street, Market Weighton, Yorks. 75,404.
- Monogram of "J. A. P." in fancy circle; for complexion powders. By The J. A. Pozzoni Medicated Complexion Powder Company, 1122 Pine Street, Saint Louis, Missouri, U.S.A. 75,631.
- "RIDGE'S FOOD COCOA"; for cocoa. By P. J. Rumney, trading as Ridge & Co., Glenalmond, East Molesey. 75,848.
- "GLYCOPINE," with figure and other wording, on label; for a preparation for the feet and armpits. By E. H. Buckell, trading as F. W. Hunt, North Street, Chichester, Sussex. 75,871.
- "Solvo," on monogram; for a laundry soap. By The Solvo Laundry Supply Company (Limited), 6 Adelaide Street, Strand, London. 76,014.
- Picture of man killing a lion; for substances for food. By J. L. Johnston, Oriel House, 30 Farringdon Street, London, E.C. 76,550.



Memoranda for Correspondents.

Always send your proper name and address; we do not publish them unless you wish.

Write on one side of the paper only; write early; and devote a separate sheet of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read. Ask us anything of pharmaceutical interest: we shall do our best to reply. Before writing for formulæ consult the last volume, if you have it.

Letters, queries, &c., not noticed in this issue will, if possible, be attended to

Foreigners in the Preliminary Examination.

SIR.—My letter of August 4 seems to have sensibly touched the London correspondent of the Pharmaceutische Zeitung, and of course no one can blame him for trying to defend the recently so easily gained advantages obtained by some of his

countrymen in England.

The points which this gentleman, however, brings forward in answer to my letter require further consideration and comment in the interest of English pharmaeists in the first place, and in defence of my own action in bringing this dangerous practice of the Council before the public in the second—as some of your readers may have received the impression from some expressions employed (quite out of place) by my German adversary that my letter of August 4 really is an immature production. I beg to submit the following statements in furtherance of my views on this all-important subject:-

1. That if the Teuton race have up to this time satisfied themselves by acquiring only German businesses in England, their principal reason for so doing is that the desire of most of these gentlemen has been cooled down by the difficulties of the Preliminary examination. German pharmacy, as a lucrative profession, is at present in such a deplorable eondition that numerous chemists who have passed their examinations have to serve for lengthened periods in the shops of their more fortunate fellows, until fiekle fortune places the winning number in the renowned Hamburg

Lottery at their disposal.

2. The English Preliminary examination does not require more from a German, nor so much "harking back to juvenile days" as quite new subjects, at least new to him, namely—a thorough knowledge of English grammar, weights and measures, and of the manner of employing such in English methods. This, I assert, is not included in any foreign certificate. There are not wanting proofs of many of our countrymen, who have devoted long years to the study and practice of chemistry, and who have found it necessary to "hark back to their juvenile days and get up a preeise acquintance with subjects which are laid before the expanding intellect of youth."

3. The certificate of a "Realschule" is inferior to that of a "Gymnasium." English is taught in both—equally in-

sufficiently for an English examination.

4. As to the quotation from the Pharmaceutische Zeitung, "Amongst these men [namcly, the English chemists] we find the most profound ignorance, &c.," the remarks thereto of the London correspondent of that paper are calculated to mislead those who have not seen that article; and whether it is the opinion of that paper or not, it is certainly a leader, occupynearly five columns; and from that eireumstance alone one would naturally conclude the paper to have adopted the sentiments and tone in which it is written, which bristles with unjustifiable attacks on the qualifications of the English chemists. This is more surprising, as we find foreign students begging to be exempted from the Preliminary examination, to which all English students have to submit and pass.

5. If the objectionable habit of admitting foreigners to the final examinations without having passed the Preliminary

has been passed before without notice, then I presume the Council have been misled by erroneous statements, such as was made to Mr. Evans at the Council meeting in the discussion of the case Hebler (vide THE CHEMIST AND DRUGGIST, July 9, page 745), namely, that in Germany eases had been known in which foreigners have been exempted from the Preliminary; but this is no reason why we should not now make a firm and energetic protest against the continuance of innovations hitherto unknown under the new regulations.

The question resolves itself into this: Are the Prelimiar examinations absolutely necessary? If so, why exemp foreign students? If not, why enforce them on Englishmen?

Q. E. D.

SIR.—I have read with much interest the letters of "O. E. D." and the "London Correspondent of the Zeitung," also your able leader thereon.

I think the remarks of "Q. E. D." are very foreible, and evidently he knows what he is about. His argument is stronger inasmuch as his opponent admits that numerous applications are constantly reaching him from his country-

The competition (without Germans) is already quite keen enough with the stores; and they were pool-pooh'd at their first onset: but who laughs at them now?

I eannot help expressing my surprise that the Council should not more carefully defend the interests of the trade. Yours truly,

PHARMACEUTICAL CHEMIST. (62/112.) August 14.

What is "Magendie's Solution of Morphia"?

SIR,-On page 80 of your journal for July 21, column first. commencing at line 29, you criticise our new "National Formulary" for speaking of a solution of the sulphate as that of Magendie, which you state should only be applied to one made from the eitrate of morphia,

All over the United States the designation of "Magendie's Solution," so far as I have ever heard, is applied to one containing 16 grains of the alkaloid to the fluid ounce of 480 minims, whether the acetate, muriate, or sulphate be used, some physicians preferring one, some the other; but I never knew the eitrate to be in common use anywherc.

A solution of this strength was always used here for hypodermie purposes, until, of late, the compressed tablets

The name "Magendie" is used to prevent confusion with the "Sol. morphic sulph. U.S.P.," which is 1 grain per fluid ounce—only ith strength of the former; an error would involve serious results.

I notice Pereira, "Mat. Medica," Phila. 1866, p. 841, says the Magendie is made from the acetate; so I doubt if the

particular form of the alkaloid is essential. BAC. Sc., M. DR,

Univ. Neo. Eboracensis. Brooklyn, August 3.

[We discussed the subject at length in this journal August 4, page 156, giving a conclusion corresponding to that of the above writer.

Afternoon Closing.

SIR,-Notwithstanding the many and varied efforts which have been made and failed in securing for the chemist and druggist a weekly break in his monotonous and wearying duties, I would venture with your assistance to make a suggestion, which, so far as I am aware, has not yet been made. The relief has generally been striven after by efforts to close the shops for the evening of some particular day of the week. Now, until you can make the taking of medicine a source of pleasure rather than disgust and nausea, just so long will the general public put off the procuring of it till the very latest moment, and the chemist and druggist's evening will continue to be the busiest time of the daily serving. Therefore, I hold efforts for evening closing to be wrong in their very nature, until, at least, something more like a millennium has dawned upon us. A patient or a customer has urgent need for some medicine to allay pain, we will suppose, in some place where evening closing has, after some trouble and many misgivings, been decided on. goes to Mr. A to procure his means of relief. Mr. A hesiles and objects, but at last consents to give it. Even le he is hesitating Mr. B passes for his evening stroll, and reg that the customer gains access has the first crack le in his determination to keep closed—"That A said he ald keep closed, and now he is serving after closing time.

l he secretary too!"

Iy suggestion is that an afternoon closing would be less ectionable in every way. Four hours, from one to five ock, would give time for a railway ride of ten or fifteen is into the country, and a pleasant walk by brook, or id, or river; time in which to make a business visit to the ; two or three hours to spend in a museum or exhibition, nake a call and have an early cup of tea with a friend or tion. If an emergency arose calling for need of medicine e would not be the dread of what might happen during long hours from eight till seven or eight next morning, Mr. A's humanity would not be likely to cause Mr. B's ections and objurgations.

his plan I have adopted for the space of twenty years or e, both in this place and at Westminster. Simply ting up the door shutter, with a notice, "Closed until 5, .30," is not followed by such an enormous loss as to make dread a coming bankruptcy. I do not think the loss als sixpence a time. I do it, and, therefore, I can from erience commend it to fellow-chemists anywhere in don as being much better than a snooze after dinner in back parlour, which I know some indulge in. If a person ads the loss of sixpence or a shilling, all I can say is he is come to gain and keep it. I think a stroll in Epping est from here, or, as I used to have, a walk in Kew Gardens, n hour or two in the Royal Academy or Kensington, or Natural History or British Museum, worth far more a two sixpences or even shillings. Therefore, I would all to enjoy a Wednesday or Thursday half-day holiday at say you, brethren—can't we have it?

13 High Street, Stratford, George Edward Burt.

August 14.

Is a Forward Move Possible?

IR,—The suggestions and questions contained in the few s from "Heder" under the above heading in last week's e have been made over and over again in different ways, different persons; but nothing practical has hitherto been result. The main difficulty seems to be not so much tought to be done as how to do it. It is pretty evident t, in order to get an amendment of the Pharmacy Act or ibstantial addition to the schedule of poisons, the initiamust come from the Pharmaceutical Society; and, when come to consider that three-fourths of the trade are outthe Society, we can at once see the chief difficulty, viz., vare these outsiders to be brought within the fold, in er that the Society may, by the irresistible power of its members, be compelled to move in this all-important Rightly or wrongly, the blame for much of the sent difficulty is laid at the door of the Pharmaceutical iety, and if the Society would bestir itself, as it ought to and make amends for its former shortcomings and take rgetic action in the interests of the trade, outsiders would enrol themselves under its banner. If the Pharmaceu-I Society cannot see its may to carry out the manifest nes of the trade, the only alternative is for the present siders to join the Society en bloc, and by their votes return ı who will do so. Yours truly, lanchester, August 14. THOMAS C. E. OSBORNE.

"Pharmacy Reform."

IR,—I have for some time noted the various expressions opinion concerning the difficulties and grievances of stered chemists and druggists, and have read about many erent remedies for their removal. I think there is one of ractical nature which might be beneficial. Let every stered chemist join the Pharmaceutical Society, make self a voter, and elect as members of Council men who ald pledge themselves to study trade interests, and proe an Act of Parliament to "render it penal for any son except a registered chemist and druggist to vend any go or medicine or patent medicine whatsoever." This pappear a very sweeping measure, but the public would the benefit. They would receive their medicines from

skilful hands; and many places now without a chemist's shop could possess that necessary institution, for with the abolition of the unlicensed seller of medicines you would have created a bona-fide chemist who could exist easily. For twenty-five years chemists have been my constant and esteemed friends, for as a drug traveller for first-class houses I have, on the front of the counter, watched their difficulties increasing, and look back on my apprentice days when we sold scarcely any patent medicines at all, but had proprietary articles of our own for nearly everything. I would suggest to my brethren own for nearly everything. I would suggest to my brethren to join the Pharmaceutical Society, and then have a meeting in each town or district, and frame a resolution and send it to the member of Parliament for each city or county. might take a little time, but I am firmly convinced that if a united effort were made such a Bill as I have described would pass the Houses of Parliament, because it would be based on common sense and justice. If Parliament has forced us to go through examinations for the protection of the public, Parliament should protect us in the exercise of our professional duties. I am, sir, yours respectfully,

" VIATOR."

DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this heading.

Dispensers who have compounded any of the following prescriptions, or similar ones, are requested to communicate their results to the Editor.

49/111. C. E. L.—The prescription does not present any difficulty. If you dissolve 2 grains of codeia in 1 fl. oz. of distilled water, with 3 minims of acid. phosph. dil, and then use $2\frac{1}{2}$ fl. drachms of the solution, you will have exactly $\frac{1}{8}$ grain of codeia, and as nearly as possible 1 minim of the acid.

A Dispensing Explosion.

SIR,—An incident which happened the other morning may interest your readers, some of whom may be able to give an explaration of the cause, which is as yet unknown to me. While preparing a lotion (which I have done several times before with impunity) a violent explosion resulted, which left the mortar (a glass one) lying on the counter and floor in fragments, resembling gum arabic or bruised camphor, a sample of which please find enclosed to show the extent of the fracture. The lotion was zinci oxid., 3j.; glycerini, 3iv.; aq. ad 3iij. I had rubbed the oxide with the glycerine to bring it to a paste for a few seconds, and on adding about 3ij. of the water I was startled with the loud report, and the mortar (and contents, which remained afterwards apparently unaltered) scattering in all directions, and nearly spoiled a suit of clothes. Fortunately no serious damage was done further than the loss of the mortar and its contents, and that the junior apprentice, who had only been in the shop about a week, and who was standing close by, thought the whole shop was up. I renewed the process in a porcelain mortar, reversing the order of adding the liquids, and nothing bappened. Zinci ox. was of a new stock procured from a house in town, but glycerine was of same as when last prepared.

Hôping to have some enlightenment as to its cause, Yours faithfully,

SENIOR APPRENTICE, WERDNA. (72/111.)

[We should attribute the explosion to a molecular disturtance of the glass of the mortar. Such vessels, if imperfectly annealed, are liable to these explosions if scratched on the particular spot where the imperfection occurs. Probably a small piece of grit was rubbed over the point when the explosion took place.]

47/112. A. E. J.—We can hardly think the prescription is an Italian one judging from the tracings of the words you send us. The first line which you write, "inf. hublom," we should suppose would be "inf. houblon" (an infusion of hops \(\frac{1}{4} \) oz. to 16 oz.); but the term is French, not Italian.

The "pomade" (the Italian word would be "pomata") it is impossible to make out from your tracing only. It may be pomade hyd. precipit., the red oxide being intended, we judge from your statement. But if you know what it is for, you can better judge. This would be made with 1 to 15 of vaseline or lard. Sometimes a little laudanum is added.

72/112. R. D. M.—The prescription of which you send a copy appears to be a French one, and should be read as follows:—

The marks in the margin mean "for a drink" and 1s. 3d., the price charged. Your copy of the directions is not very clear, but we read them to order some sort of glassful to be taken five or six times a day.

SIR,—I would like to know if it is usual amorg dispensing chemists to use lac bismuthi 1 in 4 instead of bismuth subnit, when the latter is ordered in a prescription, as is done by a large firm of London chemists, or is it restricted to the few? The two preparations produce a mixture of very different appearance. The lac is easily shaken up and more diffusible.

Yours truly,

PELICAN. (18/113.)

[We should regard the use of lac bismuthi when bismuthi subnit. is ordered as quite indefensible.]

16/113. Caryoph writes:—In the following prescription, I find the spt. amm. arom. precipitates the ferri phosph. of the Easton's syrup, which I may state has been made by the B. P. C. formula. A few days ago the same prescription was dispensed with syrup made from the liquor obtained from a wholesale house, but no such precipitation was observed. Can you assign a reason for this?

 Spt. ammon, arom,
 5ij.

 Syr. Easton
 3ss.

 Tinet, nucis vom.
 5iss.

 Aq. ad
 3vj.

[The explanation, we suppose, would be that the secondnamed syrup contained sufficient free acid to prevent the precipitation of the ferri phosph.]

LEGAL QUERIES.

Ignoramus.—There is no fixed seale for allowances to witnesses at police courts. A chemist should ask the magistrate before he his sworn to order payment of his expenses. A witness is not bound to attend on a subpœna unless a reasonable amount is paid to him with such subpœna; but once in court he cannot refuse to give evidence on the ground that his expenses have not heen paid.

41/112. Grateful.—Bay rum is not liable to medicines amp duty if sold only as a toilet article; but it becomes liable if recommended on the label or by circular as a remedy for rheumatism or other complaints.

34/110. F. A. D.—You can obtain application forms for the registration of trade-marks from any post-office. These are not generally kept in stock except at the largest offices, but will be obtained. You will have to pay 5s. for the application form, and, having filled it in, you must forward it to the Trade-Marks Office. If accepted, you will have to pay 20s. for registration.

68/110. A. J. D.—See the previous answer. If some one applies to register a mark which you have yourselves previously used, you can on that ground enter an opposition, and you will most likely succeed in preventing the registration. But there is no means of making this opposition formally, except on the officially stamped document, which

will cost you 1*l.*, and perhaps more if your rival contests the case. You can, of course, first write to him, and come to an arrangement, if you think fit and if he is willing. The opposition forms are to be obtained at the post-offices, like the other forms.

15/112. S. H.—The Medical Acts of the United Kingdom are not in force in the Channel Islands, but no doubt each island has its own regulations in regard to medical practice.

46/113. Amicus — You may not use methylated spirit for any medicine either for internal or external application, except for the official liniments specially named (aconite, belladonna, soap, and camphor), unless you get the express permission of the Board of Inland Revenue.

31/113. Tom says:—"A men enters a chemist's shop and purchases a patent medicine, stamped, labelled, and seemingly perfect. In a while he takes it back, and says it is not good. He has, of course, broken the stamp and rendered it unsaleable. Can he legally reclaim his money from the seller?"

[Certainly he can, if he is able to satisfactorily prove that he has received an improper article.]

15/107. Shilling writes:—"I am about to introduce a new remedy which I intend to sell at 1s; but instead of using the word 'shilling,' I would like to introduce on my labels and wrappers an engraving of a shilling. Having some doubt whether such an act would be permitted, I wrote to the Board of Inland Revenue asking the question, and for reply was told 'that the question does not concern that department,' and that I might get a reply by writing to the authorities of the Royal Mint. I did so, and had a reply acknowledging receipt of letter, and adding:—'It is not within the province of the master of the Mint to express an opinion on the subject.'"

[We should think it quite probable that the Crown might have the power of preventing the copying of its designs, but we should think it enormously improbable that it would ever exercise such a power. If it did in your case, the fortune of your patent medicine would be made. We believe representations of a shilling have been stamped on books to indicate the price, and this week's Trade Marks Journal gives a mark in which four pennies are represented.]

MISCELLANEOUS INQUIRIES.

A large number of correspondents ask us for formulæ which have already been published in this journal. It is not fair to more careful readers that we should frequently repeat such information, and so long as the back numbers containing the formulæ or replies required are in print we must decline to do so. Back numbers of our weekly issue can be obtained from the publisher at 4d. each.

Correspondents who expect early attention to their queries must please observe the stipulation at the head of this section about using a separate sheet of paper for each query.

Books.

43/111. R. J. H. R.—The treatise on the "Art of Dispensing," to be published immediately by us, will contain the best collection of terms used in Continental prescriptions.

2/109. Inquirer.—The above work will best meet your requirements.

20/275. A. C.—Milne's "Principles and Practice of Midwifery and Diseases of Women" (Baillière, 12s. 6d.); Clay's "Handbook to Obstetric Surgery" (Churchill, 6s. 6d.); Barnes's "Lectures on Obstetric Operations" (Churchill, 18s.); Schræder and Carter's "Manual of Midwifery"

nurchill, 7s.); Smith's "Handbook for Midwives" (Longns, 5s.).

28/110. Constantin.—Weeden Cooke's "Cancer: its Allies d Counterfeits" (Longmans, 12s. 6d.); Purcell's "Cancer: Allies and other Tumours" (Churchill, 10s. 6d.); Marsa's "Certain Forms of Cancer" (Churchill, 8s. 6d.); encer Wells on "Ovarian and Uterine Tumours" hurchill). See also answer to "A. C." The last you ask will, perhaps, be best met by Swayne's "Obstetric horisms" (Churchill, 3s. 6d.).

58/107. Alizarine.—Napier's "Manual of the Art of eing and Dyeing Receipts" (C. Griffin & Co., 21s.). There a very good treatise on "Dyeing and Dye-stuffs" genely in one of the parts of Spon's Encyclopælia, but it is re expressly applied to cotton-dyeing and caliconting than to wool-dyeing.

10/109. Sam Slick.—Bugs can be got rid of if vigorous asures are taken. Small puffs of insect powder are of the use, and no healthy bug is afraid of sulphur. When may are only stray visitors insect powder supplied abundally (by handfuls) will succeed; but if they are in talions the skirting boards must be removed, the walls aped, the whole scrubbed with soda and water; then a ution of corrosive sublimate applied wherever there is a slightest chance of one existing, and afterwards turtine and camphor administered. Careful watch must be of for occasional survivors, and ultimately more soda and ter and then paint and whitewash must be applied.

io/111. J. A. T., who asks for a solvent for amber for nish, is referred to the answer to "Digitaline."

is/111. Pompeii.—"Alcool de Concombre."—This is not official preparation, but it would most likely be prepared expressing the juice from ripe cucumbers, decanting, and ling an equal part or less of alcohol. The following is a mula for a spirit of cucumber seeds used as a metic:—

					Part		
	Sem. cucumeris	recent	, con	tus.	 	100	
	Spirit ammon.	mon.			 	4	
	Sp. coloniensis				 	300	
1	Sp. vini rect.				 	300	

Iacera per hebdomadem, exprime et filtra. Half an uce to be added to the water in which the hands and te are washed.

The Change.

Pharmacist (48/111) sends information of a lady who, a ing bought 2d. of liquorice, tendered half a crown, and a ing received the change, including a florin, returned to a counter asserting that the change was not correct. The counter asserts that she had substituted a penny for florin. "Pharmacist" did not yield to her demand. I adds she afterwards visited another chemist in the capbourhood (London, S.E.) and attempted a similar formance, this time successfully.

6/110. Spes. — Freezing Mixture. — The simplest fiving compound is made of 2 parts of powdered ice and leart of common salt. If you do not use ice or snow, at a tof ammonia is the best, or nitrate of potash and sala noniac, 1 part each, and water 3 parts.

2/112. Edina.—The average dose of chloral for an adult is 0 to 30 grains, which is often repeated in two hours. It wild be ridiculous to give you a statement of the largest de which may be taken with safety. There is a case on reord of a German soldier who took 430 grains in 3½ hours, an recovered; but to administer anything approaching such a nantity on the strength of that record would be criminal miness.

14/110. W. H. B.— Modelling Wax.—(1) Bees-wax, lead plaster, olive oil, and yellow resin, of each equal parts; white bole, q.s. to form a paste. (2) Bees-wax, 200; Venice turpentine, 26; lard, 13; precipitated bole, 145. Mix, and knead the mass under water.

41/109. Digitaline.—We must refer you to this journal of June 9, 16, and 23 for discussion on violin varnish. An Amber Varnish such as alone might be useful as a violin varnish may be made as follows:—

	Amber in small pie	ces	 ٠.	 2 oz.
	Venice turpentine		 	 2 fl. cz.
	Pale linseed oil		 	 11, ,,
issolve a	and add			
	Oil of turpentine		 	 2 fl. oz.

Or a form said to yield a superior varnish is made from—

White amber	 		• •	 1 lb.
Fine nut · il	 	• •		 1 ,,
Turpentine	 			 2 oz.

The white amber is made according to Meredith's process, by mixing 1 part of amber with 2 parts of rock salt, the latter in strong solution. The solution and the amber are mixed in a crucible and heated until the amber is white. The amber is then removed, heated again, washed to separate the salt, and carefully dried. To make the varnish it is gradually dissolved in the oil by heat. The turpentine is added when cooling.

14/111. B. R. H.—You will find information respecting army dispensers contributed by two sergeant compounders of the Medical Staff Corps in The Chemist and Druggist, June 30 and July 7. There are special regulations for naval dispenserships, these being employed in the naval hospitals. There are not many, and a pharmaceutical certificate is required from the persons to be appointed. Candidates must be between 20 and 25 years of age, and the pay varies from 5s. to 10s. per day, according to length of service. You might get the regulations from the Director General of the Medical Department of the Navy at the Admiralty offices.

Cold Soldering —Mr. J. E. Brown (Saithwaite) is good enough to send the following information applied for by an inquirer a few weeks since. It is a cutting from a technical paper, the title of which is not given:—"To cold solder, take 1 oz. each of ammoniac, common salt, and calcined tartar, and 3 cz. of antimony; pound well together and sift. Put this in a piece of linen, and enclose it well round with fuller's earth about an inch thick. Let it dry; then put it in one crucible, covered by another, over a slow fire to get hot slowly. When the contents get red hot and melt, let them cool gradually, and when cold pound the mixture. To solder with this, put the pieces on a table close together, with a crust of fuller's earth to keep them in place, leaving an opening at the top, and throw some of the powder between and over the joint. Dissolve borax in hot urine; dip a feather in it, and rub the powder at the place of the joint. It will immediately boil up; when the boiling stops, the union will be made.

53/107. Alizarine.—Inscluble Cement for causing pasteboard to adhere firmly:—

			vz.
Finest orange shellac	 	 	4
Strong spirit	 	 	3

Digest in a warm place until dissolved. The solution is of the consistence of treacle, and will hold anything.

38/112. Donovan says a customer of his has some orchids from South America which are infested by a species of large ant. They have tried hyd. perchlor., strychnine, and arsenic, but without dislodging the enemy.

[Petroleum is death to British ants, and may be as ruinous to the South American insects. Insect powder and strong tobacco infusion are also worth trying.]

- 23/112. Signum.—By "Jambul" seeds perhaps you mean "Jequirity" seeds (Abrus Precatorius), which are known as "Jumble Beads"; but you give us no idea of what they are used for.
- 66/111. B. M. E.—We find in Beasley's "Book of Prescriptions" one for a collyrium, given by "Mr. Mackenzie," of I grain of hyd. perchlor. in 8 oz. of distilled water; but we do not trace any formula by the same authority containing also ammon. chlor.
- 23/112. Signum.—Walnut stains may best be removed from the skin by chlorine water, solution of chloride of lime or soda, or liquor potassæ.
- 48/112. Inquirer.—The pharmaceutical certificates are only accepted pro tanto for certain of the Medical Preliminary examinations, not in the professional examinations.
- 29/278. P. G.—Your powder seems to be a tinted mineral substance, and has probably been impregnated with some disinfectant; but we should judge it is of no value now.
- 49/112. Students and Apparatus.—A. B. sends us a somewhat floridly composed document, addressed, not to us, but to "the Square," urging that "the whole of the apparatus as applied to the practical teaching of physics, which is at present removed from the eyes of observers under double lock and key, be placed freely at the disposal of those who would, if they could, make use of them." We do not understand whether this paper is a copy of one which has been addressed to the proprietors of 'the school concerned, or whether it is sent to us as a grievance; in the latter aspect it does not strike us as a very formidable one.
- 20/111. Chemicus.—Cud Balls are made of cordials mixed with theriaca. The practice of giving balls to ruminants is altogether opposed to science. If ruminated at all, they are liable either to be lost or cause disgust. There is no better way of administering medicines, whether liquid or not, than as drenches in hot ale or thin gruel. The following is a good formula, the size of the ball being no objection. It should not be wrapped in paper—

Pulv	sem. anisi	 	 	3iv.
39	gent	 	 	∃iv.
11	fenug	 	 	3iν.
"	gran, parad.	 	 	3iv.
,,	capsici	 	 	Ξj.
22	zingib	 	 	эij.

Theriaca ut ft. bolus.

18/112. W. W. would like a form for Maggot Lotion without mercury, for sheep. He says "Cuff's Fly Oil" is very satisfactory as far as killing the maggot goes, but the shepherds complain that the fly strikes again where it has been used. This objection applies also to all carbolic dips, on account of the organic matter they leave in the fleece. There is no everlasting remedy, nor is there any better preparation than acid carbolic, I part; ol. sesame, 25 parts, to which may be added ol. picis, \$\frac{1}{2}\]. With the latter the flies keep off for a longer time, but there is a certain amount of depreciation in the fleece, and the shepherd will find it the better plan to repeat the other application more frequently. Acid carbolic attracts flies only when glycerine is the vehicle; fixed oils do not do so, but those containing the least amount of extractive matter should be used, consistently, of course, with cost. If sheep are to be pastured near trees or specially unfavourable places for flies, it is a good plan to plentifully water them from a garden can and rose with Jeyes' fluid or emulsion; the latter does not attract flies afterward, but its effect is evanescent in their repulsion.

- 68/98. Scottie wants to know how the pink colour of the skin of pure Shropshire sheep can be heightened. The animals in question have been frequent winners of prizes, but lately have lost the beautiful that so much prized in competitions. Their health and condition are splendid, and no change of diet has been given which can account for loss of colour.
- [A good authority to whom we have submitted this question says:—"Try capsici pulv. c. ferri sulph. pulv. with a little pulv. fenng. in the food; 20 grains of the first, 10 grains of the second, daily, in about 3ij. of the fenng. Has there not been some change in the dip used or in the time of year? We have known such changes produced by being under cover or vice verså in winter."]
- 30/103. Pax (Paris).—An Artificial Gum has been brought into the market in America. It is almost colourless, but has otherwise the appearance of the natural article. It is somewhat sweeter than acacia gum. Mr. E. B. Stuart, who has examined it, reports in the Western Druggist that it is obtained by mixing dextrin with a solution of gum arabic, and evaporating in vacuo.
- 5/112. August wants information concerning "Jariwari," said to be an Indian remedy for fever. "Jari" is one of the Indian names for the Sorghum vulgare grains, the ivory wheat, or Egyptian corn. Perhaps "Jari-wari" has some association with this. But we should expect that what is meant is a proprietary medicine called "Jvara-hari, or Fever Destroyer," sold by F. H. Bowden, 43 King William Street, London, E.C.
- 4/110. Tomatoes.—J. C. K. asks:—"Can any reader give me information as to the medicinal properties of tomatoes? I frequently hear of them being recommended for liver complaints, and I would like to know if there is any foundation for this belief; also what the active constituents are."
- 61/113. Smelling Salts.—C. G. sends the following as a formula he has used for many years, and which gives satisfaction:—

	Ammon. chlo	or.					3viij.
	Potass, carb.						Zilj.
	Liq. ammon.	fort			• •		338.
	S. V. R.	••					3 3₹.
	Ol. caryoph.				• •		XX.
	", rosmar.						mxx.
	,, cassiæ	• •	• •				w_{x} .
	., limonis	• •			• •	• •	m_{XXX}
	", bergamot						\mathfrak{m}_{XX} .
	Gum camphe	r					Эij.
	Musk			• •	• •		gr. j.
ıL.							

- 5/113. A. P. G.—Mr. John Wood, F.R.S., 61 Wimpole Street, or Mr. John Langton, 2 Harley Street.
- 30/110. C. G.—Shoemakers' Wax, we believe, is a compound of pitch and tallow. Jeyes' Disinfectant is said to consist chiefly of creolin, one of the products of the distillation of tar. In an action brought against the company last year one of the directors stated that the ingredients used in the manufacture were creosote oil, caustic soda, and resin.

Information Wanted.

[Replies to the following requests are solicited by correspondents of THE CHEMIST AND DRUGGIST.]

- 27/110. How to repair "ebonite part" of Higginson's enemas.
- 11/50. Formula for "Rubiline," a mouth-wash ordered by dentists.
- 31/110. "C." would be glad of a suggestion to prevent children biting their nails; colocynth, aloes, and chiretta have been tried to no purpose.

(Prepared exclusively from Opium.)

The safest and best preparation of Opium; produces neither headache, sickness, or constinution.

Dose, the same as that of Tinct. Opii, B.P.

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- and so pure." JOURNAL. "goes a long way.")

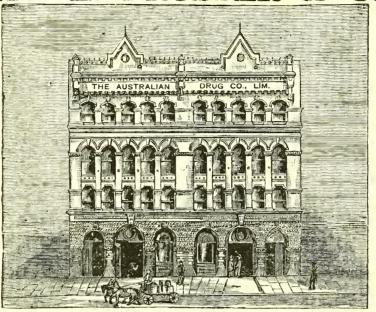
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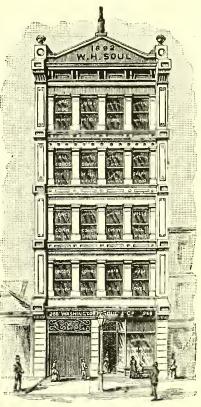
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Gross Botts Bismuth. Pepsin. Co. (Wyleys'), B. Bismuth, Nit., 2 gr.; Pepsin Porci, 1 gr.; Ferr. Redact., 1 gr.; Strychnin, 1/24 gr. 3/6 Calcii Sulphid. $\frac{1}{10}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, 1 gr. 1/8 Cascara Sagrada (Ext.), 2 gr. 2/-Ergotin. Comp. R. Ergotin, 1 gr.; Ferri Sulph.

Exsic., 1 gr.; Ext. Hellebor., 1 gr.; Ol. Sabinæ ½ m.; Ext. Aloes Soc., 1 gr.... ... 3/-YLEYS

Gross Botts. Ferri Hypophosph. Comp. (Wyleys'). Each pill represents 1 fluid drachm of Syrup of the ... 2/6 Hypophospnites... Ferruginous (Bland's), 3 and 1/8 ...

Ferri Quininæ et Strychninæ Phosph. (Wyleys'), representing Easton's Syrup ... 3/-

Gross Bette Hydrarg. et Arsenic. Iodid. (Wyleys'). Each pill equiva-lent to 5 minims of Donovan's Solution ... 1/8 Manganese Binoxid Pur., 1 gr. 2/6 Phosphorus, 1 Ext. Nuc. Vom., ½ gr. Podophyllin Resin, 1 gr.; Pil.

2/6 Rhei Co., 4 gr. ... Potass. Permang., 1 gr., 2 gr. 2/-

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1 part to 5 Sp. Vini Rect. 56 o.r. makes Sp. Æth. Nit 850.

This core centrated preparation is carefully drawn in our own laboratory, is highly recommended, and is daily finding increased favour with the trade for making Sp. Nitre, as required for use, and thus avoiding the risk of a development of free acid, which is more or less prevalent in Sp. Nitre that has been drawn some time.

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VERSUS

ALBERT N. BECK, HASTINGS.

BY AN ORDER made on the 13th day of July, 1888, by the Honourable Justice Stirling, in the Lord Chancellor's Court (Chancery Division), High Courts of Justice, the Defendant was perpetually restrained from "Infringing "the Plaintiffs' Trade Mark, and from selling or offering for sale any "HOP BITTERS, TONIC BITTERS, or other compound contained in "bottles having affixed thereto any labels similar to or only colourably "differing from the bottles and labels used by the Plaintiffs, or so contrived "or prepared as to represent or lead to the belief that the compound manu-"factured or sold by the Defendant is of the Plaintiffs' manufacture."

N.B.—Any infringements on our rights or trading on our reputation by vending compounds as substitutes for HOP BITTERS will be summarily dealt with.

We would advise the Trade not to be induced under any pretext to sell or offer for sale compounds in imitation of our HOP BITTERS, but rather to trade only in the genuine article, which is the most honourable, and, in the long run, most profitable. Printed matter will be sent to any Chemist on application, and all inquiries promptly attended to.

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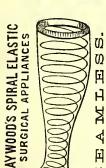
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See INDEX TO ADVERTISEMENTS, pp. 31-33.

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CONCENTRATED PERFUMES, of great fragrance and strength.

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> 2/6, 4/6, 7/6, & 10/6

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This old-established and increasingly favourite Dentifrice has been over Sixty Years hefore the Public. It is warranted to retain its properties and keep in good condition in any climate, genuine is manufactured solely hy

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A fresh Disinfecting Powder. It is a combination of soluble Chlorides and Camphor.

THE ADVANTAGES CLAIMED FOR IT ARE-

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EXTRACTS FROM REPORTS. "It is a most powerful disinfectant."

Professor Redwood says:—"I have made several experiments for the purpose of testing the efficacy of 'Kamphorkalk' (Cooper's Camphorated Disinfectant), and am satisfied that it possesses the properties claimed for it, and that it may with advantage be used in cases where infective disease prevails; and for arresting the decay of animal or vegetable matter from which noxious effluvia may emanate."

Sold retail in pretty decorated Canisters, 2 lbs., 1/; 6 lbs., 2/ each. In 28-lb. Kegs and 1-cwt. Casks much cheaper in proportion.

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These articles are strongly recommended as

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OKELL'S ORIGINAL MONA BOUQUET

Retail, 1/, 1/9, & 3/6; Wholesale, 7/,12/, & 22/6 per dos.

This much-admired Perfume (first introduced by the late Joseph Okell) may be obtained from the leading Patent Medicine Houses, Wholesale Druggists, and Druggists' Sundry Dealers.

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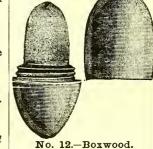
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Manufactured of Finest Japan Menthol. Guaranteed perfectly pure

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Each Bottle is neatly labelled. and contains an an ounce of best quality Perfume.

> A GOOD SELLING LINE. 4s, per doz.

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THE BEST BOTTLE OF THE SEASON. Filled with strongest ammonia and agreeably perfumed. 2s. per doz.; 20s. per gross.

TOOTH SOAP (White or Red).





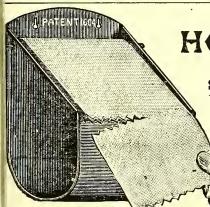
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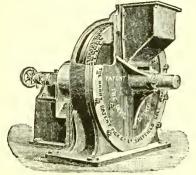
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DISINTEGRATOR & MIXER?

This Machine will Grind to Powder, Granulate, or Shred any Material, Animal, Vegetable, or Mineral. or Mineral. The following table gives some information as to the quantities of various classes of material the Machines will deal with per hour:—



CLOGGING ABSOLUTELY IMPOSSIBLE.

MATERIAL	No. 1 Size Machine	No.2 Size Machine	No. 3 Size Machine
Coal, Fine , (for Briquettes) Lead Ore Slate Bones (Dry), Flne , (Green) Hoofs and Horns Rags Indian Corn Wet Clay Oak Bark	10 cwt. 20 " 30 " 20 " 30 " 3 " 5 " 5 " 5 "	20 ewt. 40 " 60 " 25 " 20 " 40 " 6 " 8 " 2 " 15 " 15 "	50 cwt. 200 " 140 " 50 " 50 " 10 " 110 " 15 " 20 " 30 "

urchasers should compare the quantities of material ground per hour with the capacity of other Machines. There is no other Grinder that will deal with anything like these quantities in the same time

No.	PRICE	Belt required	Diameter of Pulley	Revolutions per Minute	
1	£30	3 inches 5 ", 7 ",	8 inches	1,000	
2	£60		12 ,,	900	
3	£90		14 ,,	800	

The chief feature of this Grinding Machine is that it combines the centrifugal with the grinding action, and it can be adjusted to grind to any degree of uniform fineness while in motion. No Screens or Grates are required. Will Grind Wet or Dry Material, Clogging being impossible. Samples of material forwarded to us may be passed through the Machine in the presence of intending purchasers or forwarded by rail. Larger sizes made to order.

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the largest Food-preserving Houses and CHEMISTS, to whom references can be given.

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TIN BOXES are described by the Times, Engineer, Grocer, Oil and Standard, Chronicle, Illustrated News, Engineer, Grocer, Oil and Colourman, and Press generally, as the "neatost and most elegant invention ever made."



Boxes ready made up, or the Patent Tops only (ready for making up), are supplied.

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IN THE HIGH COURT OF JUSTICE, CHANCERY DIVISION.

GRIFFIN v. NOAKES. 1887. G. No. 1,088.

GRIFFIN v. FRAVER. 1887. G. No. 1087.

As we understand from some of our Clients that, from false representations made, an impression prevails that the proceedings in these actions have failed, we beg to inform the public that such is not the fact, and that the proceedings are being carried on as fast as possible, in the Chancery Division of the Court, to restrain the Defendants from selling or making Tins similar to those manufactured by us, and from infringing our Patents. The Defendants, pending the proceedings, have been ordered by the Court to keep an account of all sales made by them. Our Solicitors, Messrs. Clarkson, Greenwell & Co., have had instructions from us to proceed against all persons so offending.

FOR THE SELF-OPENING TIN BOX COMPANY, G. FEATHERSTONE GRIFFIN, Manager.



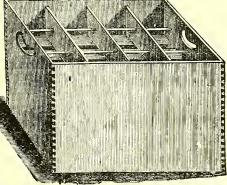
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FOR Colic or Gripes in Horses and Cattle, FOR Debility and Chills in all Stock. FOR Scour in Calves and Lambs. FOR Hoven or Blown Cattle and Sheep. FOR Shivering Fits in Horses, FOR Weakness after Lambing or Calving.

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FOR Healing all Wounds in all Animals.
FOR Kicks, Stake Wounds, Broken Knees in Horses.
FOR Cracked Heels and Saddle Galls in Horses.
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FOR Every Horse-keeper, Farmer, and Shepherd. PRICE-2/6 PER BOTTLE.

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FOR III Condition, Off Appetite, Disordered System, FOR Heat-lumps, Itching, and Scorvy Skin. FOR Hidebound Bad Water, and Blood Aulments. FOR Coughs, Colds, Sore Throats, and Fevers in Horse

THE "ORIGINAL" UNIVERSAL MEDICINE CHESTS, £2 4s. and £5. FOR ALL DISORDERS OF HORSES, CATTLE, CALVES, SHEEP, AND LAMBS.

Only Prepared by the Inventors, DAY & SONS, CREWE, CHESHIRE.

May be obtained of Burgoyne, Burbidges & Co.; Sanger & Sons; Evans, Lescher & Webb; Barclay & Sons, &c., London; Evans, Sons & Co.,
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Per 100, 2/. Per I,000, 19/.

In Bottles - per doz. 3/4 & 6/9 In Bellows Boxes per doz. In ditto (Tin) 6/9

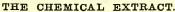
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For assuaging pain and inflammation in all wounds, saddle galls, strains, bruises, swellings and relaxed tendons in Horses. For paining after calving and lambing, and for swollen udders and sore feet.

2s. 6d. per Bottle; 1-dozen Box, 7s. 6d.

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Celebrated for inflammatory disorders, such as fevers, pleurisy, foot-and mouth complaints, yellows, surfeit, and red-water. Also for difficult calving and lambing. Admirably adapted for cleansing and checking feverish symptoms in Cows and Ewes after a bad time of parturition.

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THE GASEOUS FLUID.

Unmatched for colic or gripes and debility in Horses, for colds, chills, shivering fits, flux and diarrhœa in Cattle, Calves, and Sheep. For Ewes weakly after lambing and blown Cattle and Sheep, its effects are marvellous. 20s. per dozen Box.

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For ill-conditioned Horses and Colts; invaluable after hard hunting or driving. For coughs, colds, staring coat, itching, swollen legs and want of strength. The powder given in the feed will produce fine appetite and tone. 7s. 6d. per dozen; 3-dozen Box, 21s.

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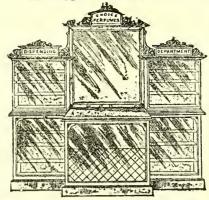
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PYRAMID" NURSERY LAMP FOOD WARMER, LY-DESIGNED

NEW REGISTERE



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for CLARKE'S PANAKIN, and see that his name and registered number (Registered 91,211) is on the Panakin, lek "Pyramid" Night Lights are the only Lights suitable for these Lamps.

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AMID" FOOD WARMERS, by their peculiar construction—the glass chimney conducting and concentrating heat to be water vessel—a larger amount of LIGHT and HEAT is obtained than can be in any other lamp of the same class.

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tions for using the Patent "Pyramid" Food Warmer and Night Lights.

which is required to be kept hot to be placed in the norcels in panakin, and water in the tin vess'l-just sufficient to reclain panakin being placed therein. Care should be taken in lighting the Night Lights not to injure the top, action for the wick, but simply apply a lighted match or taper and allow the material to melt away.

olds Half-pint Food, besides Water 3 6 ... Three-quarters Pint Food ,, 5 - 0 ne Pint Food ,, 6 -

,,

(... The Patestee, in reply to numerous consumers, hess to state that he will warrant h's PATENT "PYRAMID" ILERS to answer the purpose for which they are recommended, only when the "Pyramid" Night Lights are burned o momon night lights will not give sufficient heat. Persons who find a difficulty in obtaining the "Pyramid" Night scondition are requested to write to the Patentee, S. CLARKE, Patent "Pyramid" Night Light Works, Crickle-to, W.W., who will give the address of his nearest agent. The "Pyramid" Night Lights are best when newly made; a 'Food Warmers are sold by a'l respectable dealers throughout the Kingdom.

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The "Pyremin" Night Labys render the burning a Night Light perfectly safe, entirely trevent FLICKER-ING so objectionable in all Night Lights not burned in a lamp), are clean, portable, and render a Night Light useful for many purposes where they otherwise would not be.

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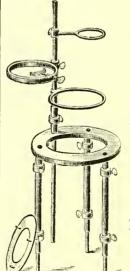
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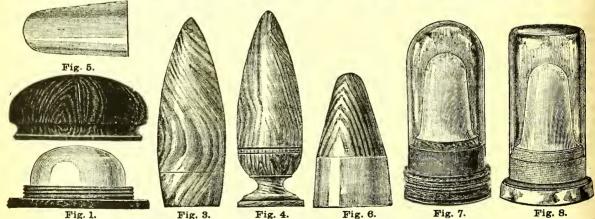
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	16. 4.	rig. o.	1 1g. 1.		1. 16	5. 0.			•		
Fig. 1.	In Ebony Cases, flat	t for the pocket		•••	•••		•••	•••		Per	
	In Boxwood Cases,	per doz., 3/- and	d 4/-; in V	egetabl	le Ivory	•••	•••	•••	•••	•••	" 6/-
Fig. 3 & 4.	In Boxwood Cases,					•••	•••	•••	•••	•••	,, 4/- and 6/-
Fig. 5.	In White Opaque G	lass Jars with 1	Red Cellulo	id Cap	s	•••	• • •	•••	***	•••	" 2/6 and 3/6
	Mounted, in Stoppe			•••	•••	•••	•••	•••	•	•••	" 6/6
Fig. 6.	Mounted on Vegetal	ble Ivory, in Gl	ass Bottles	, Screw	Metal (Caps	•••	•••	•••		,, 4/6
Fig. 7.	On Boxwood Mount			•••	•••		•••	•••			, 3/6 and 5/9
	On new Glass Mour	its, Glass Cover	s		• • •		• • •	• • •	Per doz.	3/6, 4	/-, 5/6, and 8/-
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	SI	PECIAL QUO	TATIONS	TO	WHOLE	ESALE	BUYE	RS.			

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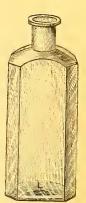
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Warranted Finest Quality Metal, Good Mouths, and Correct Measure.



CATALOGUE No. 42a. In any quantity from Stock.

Size ... $1 \text{ oz. } 1\frac{1}{2} \text{ oz. } 2 \text{ oz. } 3 \text{ oz. } 4 \text{ oz.}$ 6 oz. 8 oz. 10 oz. 12 oz. 16 oz. 20 oz. 24 oz. 32 oz. 40 oz. Per Gross 9/- 9/6 10/- 10/6 10/6 11/6 11/6 16/- 17/- 21/- 25/- 27/6 36/- 40/-

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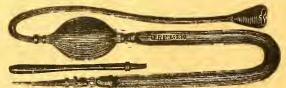
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THE CHEMIST & DRUGGIST

SUPPLEMENT.

Businesses Wanted. Businesses for Disposal. Premises to Let. Auction Sales.

SATURDAY, AUGUST 18, 1888.

Partnerships. Situations Vacant. Situations Wanted. Miscellaneous.

This Supplement will be given free to any Chemist and Druggist or Assistant who will call for it at 42 Cannon Street on Friday afternoon, or will be posted on Fridays to any one who sends an addressed postal wrapper.

ADVERTISEMENTS for this Supplement can be received on FRIDAY MORNING, first post, though it is requested that these may be sent in as early in the week as possible.

EXCHANGE COLUMN ADVERTISEMENTS will appear on page 8 (bottom folio), and must be received not later than THURSDAY AT NOON, to appear in the issue of the Saturday following.

All Advertisements for this Supplement and Exchange Column must be prepaid. Remittances payable to EDWARD HALSE, and crossed MARTIN & Co.

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A COMMISSION is offered to a gentleman calling on Chemists; goods might be forwarded by parcel post. 1/27, Office of The Chemist and Druggist, 42 Cannou Street, E.C.

A COMPETENT Assistant, with good experience, for a Dispensing and Family business. Apply, with usual particulars, and enclosing carte, to Beck, Chemist, Hastings.

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AS Second Assistant (indoors); qualified; aged 24 to 30; of good appearance and address, and accustomed to a good clars Dispensing business. Apply by letter, with carte, staring full particulars, age, height, and salary required, to Edward C. Perks, 1 Sloane Square, S.W.

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A SSISTANT or Manager for Branch; reference; can Dispense, Prescribe Extract Teeth; not qualified; married; aged 30. Address, "Cortex," 129 Graham Street, Pemitb.

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AS Manager; experienced; qualified; first-class Prescriber and Dispenser; town or country; married; highest references. "A," care of Mr. Lipscombe, High Street. Highgate, London, N.

A SSISTANCE during part of day or charge of Branch, or to Dispense and keep books, by experienced middle-agrd wan accustomed to Prescrive; small salary, or comfortable lodgings with board. "Alpha," Office of The Chemist and Druggist, 42 Cannou Street, E.C.

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WANTED, a well-educated youth as an Apprentice to a Chemist in a scaside town on the South Coast; would be treated as one of the family with every home comfort; premium moderate. For particulars, apply to F., Messrs. Meggeson & Co., Miles Lane, Upper Thames Street, E.C.

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PRELIMINARY AND MINOR.

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OUR WEEKLY SUPPLEMENT.

We have prepared a set of forms for small advertisements (assistants wanted, businesses for disposal, exchange column, &c.). With these are attached tables of useful reference matter (Sale of Poisons, Postal Information, Annual Licences, Metric Weights, Measures, Medicine Stamps, Law and Public Offices, &c.). We shall be glad to send one of these sets to any subscriber who will send us an addressed postal wrapper (bearing a halfpenny stamp). As the object of this production is to encourage the insertion of such advertisements as we have named in The Chemist and Druggist, we hope this offer will be taken advantage of chiefly by those subscribers who are willing to use this journal whenever opportunities occur.

OFFICES: 42 CANNON STREET, LONDON, E.C.

EXCHANGE COLUMN.

Limited to the Advertisement of Surplus Stock, Formulæ, Addresses Wanted, and Articles Wanted.

NOTICE.—No Advertisement is inserted in this section for less than Sixpence.

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